ski hut 72/73

photo/Mountain Travel (USA)

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design & photography — Alfred Smith

photography — Leonard Sussman

photography — Paul Herzoff

CHEVRON

TRAILWISE CHEVRON BAG. Our finest bag. Designed for expeditionary use under severe winter and high altitude conditions. Nothing has been spared in design, construction or material to make the Chevron the warmest Trailwise sleeping bag. The light, downproof, water-repellent and extremely durable Tenaya nylon shell has a luxurious feel and will give years of service. A 17½" differential cut allows maximum lofting of premium garment grade white goose down for optimum warmth/weight ratio. Six-inch Chevron baffles are spaced at 5" intervals and slanted a full half-tube width for greater thermal efficiency. All tubes are individually sewn off to positively eliminate down shift between tubes. 72" double slider nylon zipper on right or left side allows bags to be zipped together. Draw cord hood. Colors are blue or orange. Supplied with a waterproof stuffsack.

CHEVRON 3 will fit persons up to 6' 2".

SC111/3	44 oz. fill	total wt. 70 oz.	**$129.00**
SC111/3X	50 oz. fill	total wt. 76 oz.	**$138.00**

CHEVRON 5 will fit persons up to 6' 5".

SC111/5	52 oz. fill	total wt. 79 oz.	**$143.00**
SC111/5X	58 oz. fill	total wt. 85 oz.	**$151.00**

TRAILWISE SLIMLINE BAG. The Slimline, our most popular bag, is designed for the mountaineer or backpacker who must keep weight and bulk to a minimum without sacrificing warmth. The snug, form-fitting Slimline shell minimizes heat loss, resulting in a more efficient, warmer bag. A 10½" differential cut allows maximum lofting of the white goose down, while slanting Chevron baffles sewn at 5" intervals stabilize the down. Tubes are individually sewn-off to positively eliminate down shift between tubes. The standard Slimline is a versatile bag for use under general conditions. The overfill Slimline is intended for higher altitudes and winter temperatures. The shell is made of the finest water-repellent Tenaya nylon. Slimlines may be ordered in matching pairs that zip together. 72" double slider nylon zippers on right or left side. Draw cord hood. Colors are blue and orange. Supplied with a waterproof stuffsack.

SLIMLINE 1 will fit persons up to 5' 8".			
SS113/1	24½ oz fill	total wt. 44½ oz.	**$ 90.00**
SS113/1X	28½ oz. fill	total wt. 48½ oz.	**$ 96.00**
SLIMLINE 3 will fit persons up to 6'.			
SS113/3	26 oz. fill	total wt. 46½ oz.	**$ 95.00**
SS113/3X	30 oz. fill	total wt. 50½ oz.	**$101.00**
SLIMLINE 5 will fit persons up to 6' 5".			
SS113/5	28 oz. fill	total wt. 51½ oz.	**$100.00**
SS113/5X	32 oz. fill	total wt. 55½ oz.	**$106.00**

NORRLAND

TRAILWISE NORRLAND BAG. Cut fuller at the shoulder and elbow sections than the Slimline bag. Recommended for those who feel confined by the slimmer mummy style and who are less concerned with the total weight. Shell is light, downproof Tenaya nylon. A 10" differential cut allows full lofting of the white northern goose down. Down shift between tubes eliminated by closing each tube individually. Slanting Chevron baffles sewn at 5" intervals stabilize the down. Norrland bags may be ordered in matching pairs that zip together. 72" double slider nylon zippers on right or left side. Draw cord hood. Colors are blue and orange. Supplied with a waterproof stuffsack.

NORRLAND 2 will fit persons up to 5' 10".

SN112/2	34 oz. fill	total wt. 55½ oz.	**$108.00**
SN112/2X	40 oz. fill	total wt. 61½ oz.	**$116.00**

NORRLAND 4 will fit persons up to 6' 2".

SN112/4	39 oz. fill	total wt. 60½ oz.	**$116.00**
SN112/4X	45 oz. fill	total wt. 66½ oz.	**$125.00**

COMBI

TRAILWISE COMBI BAG. A "semi-rectangular" bag having a 5" taper from head to foot. An excellent bag for general summer use out-of-doors, or in cabins and campers. Full-length 99" nylon zipper extends across foot section so that bag may be opened flat for use as a comforter. 1.9 Ripstop nylon throughout. Dark green outer shell with contrasting bright orange inner shell. Slanting baffles set at 6" intervals. Tubes individually closed. Two Combis zipped together make a large double bag. Filled with grey northern goose down. Will fit persons up to 6' 4". Bag is not hooded, but does have drawcord closure. Waterproof stuffsack included.

SC017	32 oz. fill	total wt. 64 oz.	**$ 95.00**

DOUBLE MUMMY

TRAILWISE DOUBLE MUMMY BAG. A roomy bag for two people. Shell is blue Tenaya nylon. Slanted Chevron baffles are sewn at 7" intervals. 7" differential. Sewnoff tubes. Fill is grey goose down. Individual thermal control is provided by two 70" side zippers with draft flaps and independent drawcord closures. Velcro fastening of center section between hoods permits opening of entire top of bag. Will fit persons up to 6' 4". Color is blue. Supplied with waterproof stuffsack.

SD115 ..... 64 oz. fill . total wt. 104 oz. **$176.00**
SD115/X ..... 72 oz. fill . total wt. 112 oz. **$186.00**

TRAILWISE DOWN-FILLED BIVOUAC SAC OR CHILD'S MUMMY BAG. This bag is especially designed for use with a down-filled parka. Used alone, it is an excellent child's bag for the young camper up to 4' 2". The fabric is Tenaya nylon with straight slant tube baffles at 6" intervals. It has a 10" differential cut. Sewnoff tubes. Fill is grey goose down. No zipper. Modified drawcord hood. Colors are blue or orange. Supplied with a waterproof stuffsack.

SB116 ..... 16 oz. fill total wt. 29½ oz. **$57.00**

TRAILWISE SLEEPING BAG COVER. A departure from the traditional design, our cover is designed for a multitude of uses. Rectangular in shape, it measures 44" x 98". No zipper. Large enough to accommodate any Trailwise bag (except double mummy) with room left over for clothing and other gear. Will also double as tarp or groundsheet. Top is green 1.9 Ripstop nylon, bottom is beige waterproof 1.9 Ripstop nylon.

S127 ..... wt. 16½ oz. **$13.50**

SLEEPING BAG FACTS

The sleeping bag is one of the most costly and important items the outdoorsman will purchase. It should be selected with conditions of use well in mind. Choose your bag for the coldest use expected. No one bag is suitable for all seasons and temperatures, so we offer a series of bags designed to cover a range of conditions.

MATERIALS

Materials used in the construction of Trailwise bags are of the highest quality available.

GOOSE DOWN. Dead air spaces are the basis of all modern insulation, and ounce for ounce, the best down will deaden a greater amount of air than any other material. Down varies greatly in quality. The best down is obtained from mature, northern geese. Immature down and down from other waterfowl lacks buoyancy, loft and durability. Even prime northern AAA goose down comes in two quality grades; "bag-grade" down used by most manufacturers contains from 12% to 20% feathers, "garment-grade" down used in Trailwise sleeping bags has only 8% to 12% feathers.

TENAYA NYLON. Developed by Trailwise for use in constructing down-filled sleeping bags. Beginning with a 40 denier high-tenacity thread, Tenaya is tightly woven with 155 x 128 threads per inch. This high density, combined with a special finishing process, produces a down-proof, water-resistant fabric with low permeability. Tenaya has a smooth, even texture. Weight to stregth ratio is excellent.

1.9 RIPSTOP. Another excellent and popular nylon fabric used by Trailwise for their less expensive bags.

CONSTRUCTION

SHAPE. Except for the Combi, all Trailwise bags are of a mummy design. While a mummy is more confining than the rectangular bag, it significantly increases the insulating efficiency while keeping weight to a minimum. To accommodate personal preferences, we offer these bags with varying internal dimensions.

DIFFERENTIAL. All sleeping bags consist of an inner and an outer shell holding insulating material between them. To achieve maximum lofting and to prevent cold spots, Trailwise sleeping bags are differentially designed, i.e. the inner shell is smaller in dimension than the outer shell.

BAFFLES. Hot-cut from strong nylon netting and sewn between the two shells to contain the down and to prevent its shifting and bunching. Trailwise uses a slant baffle which is offset a full half-tube width for maximum loft in the Chevron, Slimline and Norrland models. These baffles are sewn into a Chevron pattern which further reduces down-shift and places cross-tension on the shell material rather than on the stitching for a much stronger bag. Baffles are spaced at 5" intervals and are individually closed to eliminate completely down shift between tubes.

ZIPPERS. All Trailwise bags (except Footsack) come with a No. 5 nylon double slider zipper which may be opened independently from head or foot for optimum temperature control and ventilation. With the exception of the Combi (which will only zip together with another Combi) all Trailwise zippered bags may be zippered together, even though length and style may vary.

DRAFT FLAP. Trailwise uses a down-filled draft flap to seal off bag zippers and eliminate this potentially cold area. These oversize flaps are offset, overlapping, and attached with **two** widely spaced seams to assure a positive draft seal.

HOOD. The hood and shoulder areas of Trailwise sleeping bags are shaped and contoured so that they readily form a smooth effective hood when pulled shut.

FINISH. All exposed raw edges in Trailwise sleeping bags are covered with nylon bias tape. Each bag is constructed by a single seamstress who is personally responsible for that bag, assuring quality control impossible with assembly line construction.

TEMPERATURE RATINGS

Sleeping bag temperature ratings are relative and should be used only as an index of comparison between bags. The low temperature range of a bag depends on many factors: adequate ground insulation, humidity, wind speed, and most important, the metabolic rate and physical condition of the sleeper. There is considerable individual variation both in the ability of the body to produce heat and to tolerate cold. Thermal underwear, sleeping bag covers, tents, significantly increase the effective temperature ratings given below.

Comparative Bag Ratings

	Length Including Hood	Inside Circumference at shoulders and ankles*	Loft	Conservative Minimum Temp. Rating**
Chevron 111/5	89"	59" - 36"	11"	-20°
Slimline 113/5	86"	58" - 34"	8"	0°
Norrland 112/4	86"	60½" - 38½"	9"	5°
Combi	81½"	64" - 51"	7"	20°
Double Mummy 115	97"	99" - 72"	8"	10°

* Measurement given for larger bags. For smaller bags, subtract 1 to 2 inches.

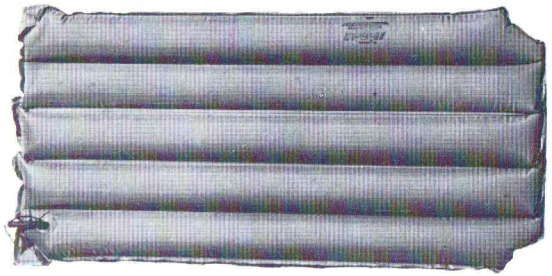
** Figures are derived from tests with many individuals. As such, they represent a conservative average temperature at which discomfort would awaken a person. The temperatures are calculated for standard fill bags. Overfill bags are approximately 10° warmer.

Washing Instructions: Only wash your bag when it is absolutely necessary. It is actually best to "spot clean" the bag by gently sponging off soiled areas with a non-detergent soap and water . . . rinsing thoroughly. If you feel that your bag needs a good cleaning, the steps listed below should be carefully followed:

1. Fill bathtub with enough lukewarm water to cover bag. Add woolite or some other non-detergent soap.
2. Submerge bag and sponge off dirty sections.
3. Drain tub, pushing down on bag with open hands and gently squeezing.
4. Refill tub and repeat step 3 several times until water appears clean. Gently squeeze out all excess water.
5. Carefully pick up bag from underneath and place in a mesh hammock (chaise lounge or whatever) to drip dry for a couple of days. **DO NOT HANG BAG.**
6. Gently pull the clumps of down apart from time to time.
7. After the bag is almost dry, place in **cool** dryer and tumble the bag to its original loft. It is a good idea to check the dryer beforehand to make sure that there are no sharp protrusions or edges that could snag the bag.

Handwashing is the best way to clean any down article. Dry cleaning takes the natural oils out of the down and the article will lose some of its loft. In either case the Ski Hut does not assume any responsibility for a bag that has been cleaned.

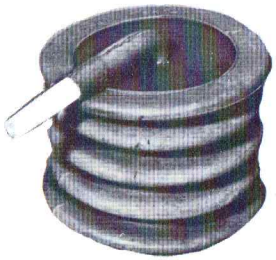
GOOD COMPANION AIR BED. A hip-length air mattress with separately inflating pillow, made by Thomas Black. Main section has four longitudinal tubes. Sturdy rubberized cotton canvas. Size 22" x 45".
S345 .....wt. 30 oz. **$10.00**



STEBCO AIR MATTRESSES. Durable vinyl laminated lightweight nylon. Longitudinal tubes. Orange on one side, green on the other. Two year factory guarantee.

S348 23" x 50" wt. 24 oz. **$ 8.00**
S372 28" x 72" wt. 40 oz. **$11.00**

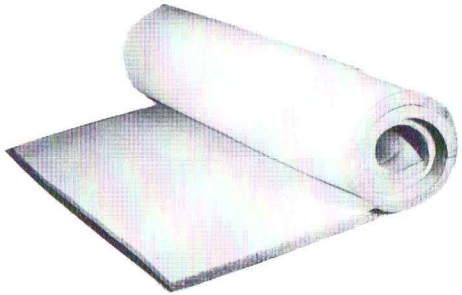
STEBCO AIR CUSHION. Inflatable nylon. Size 15" x 18". Color: green.
S340 .....wt. 5 oz. ....**$ 1.50**



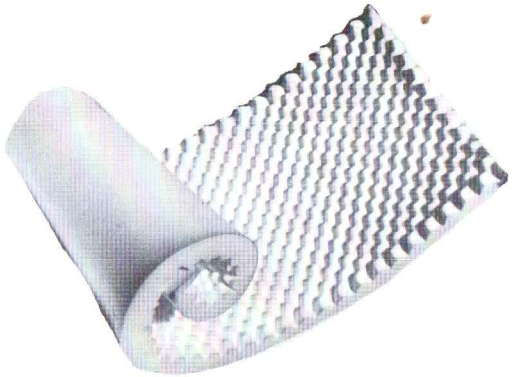
LI-LO INFLATOR. A small hand pump that will inflate your mattress in minutes.
S701 ..... wt. 7½ oz. ....**$ 3.00**

TRAILWISE NYLTOWN GROUNDSHEETS. Fine nylon with double waterproof urethane coating; remains supple at low temperatures. Reinforced at points of strain; hemmed edges, grommets at corners and midpoints. Color: brown.
S120/57 5' x 7' wt. 12 oz. **$11.00**
S120/79 7' x 9' wt. 24 oz. **$17.00**

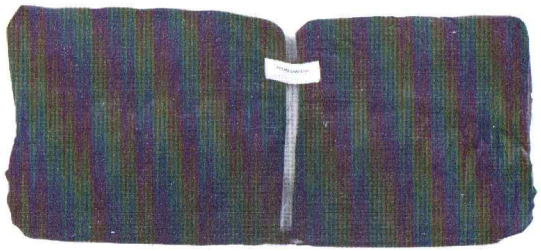
ENSOLITE SLEEPING PAD. Unicellular material will not soak up water like foam rubber. Reasonable comfort with superior insulation from ground cold and dampness. 3/8" x 19" x 42". Rolled size 5" x 19".
S121 .. ave. wt. 14 oz. ....**$ 4.50**



POLYURETHANE SLEEPING MAT. Comfortable all-purpose mat of convoluted polyurethane. Although more bulky than an air mattress, it is equal in comfort, lighter and superior in insulation. 2" overall thickness.
S123/3 ....21" x 38" ..wt. 16 oz.
Rolled size ...8" x 21" ....**$ 4.00**
S123/6 ....21" x 76" ..wt. 32 oz.
Rolled size ..13" x 21" ....**$ 7.00**



SLIMLINE PAD. Covered 2" half length foam pad. Underside is waterproof Nylport. Top is cotton to reduce slipping. Rolls into hood. Size: 21" x 38". Rolled size 9" x 6" x 20".
S122 ..... wt. 20 oz. **$10.00**



AUCA HAMMOCK. 7' x 20' nylon net rolls into pocket-sized ball. Metal tie rings.
S151 ..... wt. 8 oz. ....**$ 7.00**

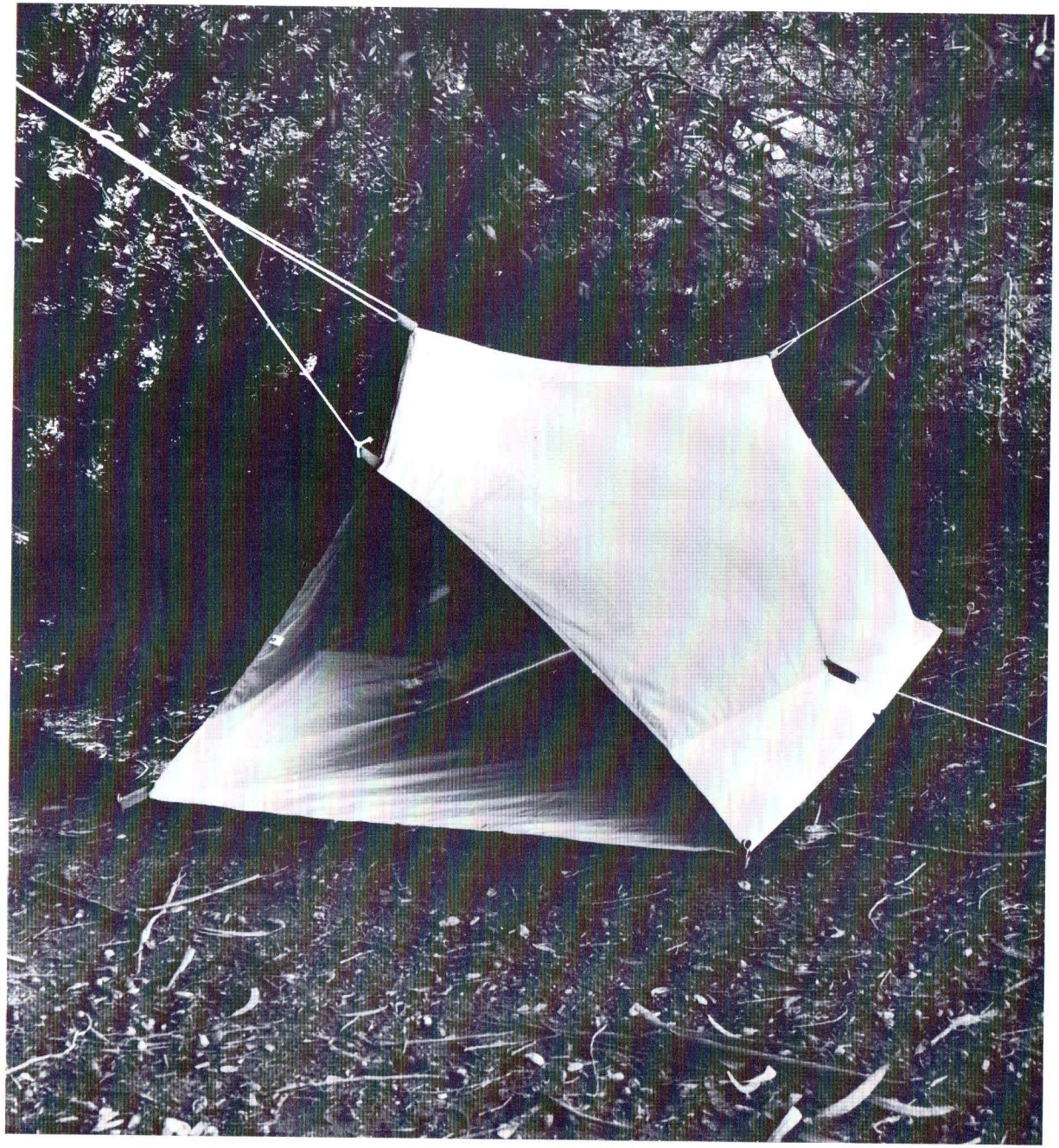
TRAILWISE TWO-MAN MOUNTAIN TENT. An exceptionally rigid, light-weight tent. Made of 1.9 Ripstop nylon; supported at each end by 56" angle poles set in nylon sleeves. Floor is 56" x 89", height 48". Zippered closures on front panel with zippered nylon mosquito screen. Tunnel door with mosquito net on rear panel. Ventilating tunnel also with mosquito net at peak of rear panel. Complete ventilation with protection from insects. Sewn-in floor of waterproof double-urethane-coated Ripstop nylon extends 13" up side of tent. Includes poles and pegs, guy lines, shock rings, and stuffsack. Colors: green or orange with beige floor and fly.

TWO-MOUNTAIN TENT COMPLETE WITH POLES PEGS AND FLY.

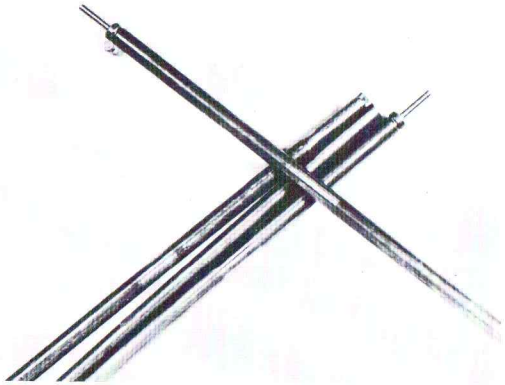
T103/fp ..... wt. 7 lb. 4 oz. **$125.00**

TENT WITHOUT FLY. (Includes poles, pegs, and guy lines.)
T103 ..... wt. 5 lb. 8 oz. ..... **$ 93.00**

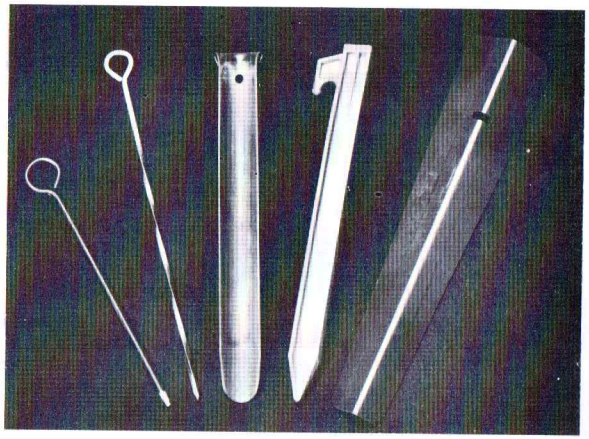
FLYSHEET FOR TWO-MAN MOUNTAIN TENT. Beige waterproof Ripstop nylon, with cord.
T103/f ..... wt. 1 lb. 12 oz. ..... **$ 32.00**



TRAILWISE FABRIC TUBE TENT. A durable, more sophisticated version of the popular plastic tube tent. Urethane-coated fabric throughout with heavier material used for floor. Peg loops and pullouts are bartacked loops of one-inch webbing. Floor is 86" in length and 58" wide tapering to 42" at rear. Height tapers from 42" to 36". Tent is two-toned with colors as available. Comes with stuffsack.
T105 ..... wt. 34 oz. **$19.50**



ANGLE POLES. Two poles in three sections. 5/8" aluminum tubing held together by elastic cord. Folded length: approx. 20". Angle fitting included.
T11056 ..... 56" .... wt./pr. 13½ oz. .. **$10.75/pr.**
T11046 ..... 46" ..... wt./pr. 12 oz. .. **$ 9.00/pr.**



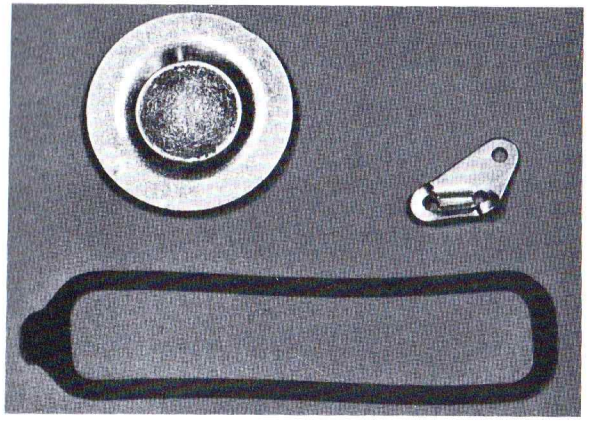
DURALUMIN PEGS. Round pegs. 7" long.
T615 ..... wt. ½ oz. ..... **$ .17**

TWISTED SKEWER PEG. Light, high tensile steel. 9" long.
T617 ..... wt. 1 oz. ..... **$ .10**

ALL-PURPOSE PEG. Aluminum half-tube. 8½" long.
T618 ..... wt. 1¼ oz. ..... **$ .60**

DURAPEG. Strong plastic I-beam construction. 9" long. Color: bright orange.
T610 ..... wt. 1¼ oz. ..... **$ .30**

ANGLE SNOW PEG. Aircraft aluminum. 10" long.
T616 ..... wt. 1¾ oz. ..... **$ .65**



POLE BEARING PLATE. Aluminum. For poles up to 1" in diameter.
T215 ..... wt. ½ oz. ..... **$ .10**

GUY LINE TIGHTENER. A small traingular slider, easily adjustable, which locks tent or tarp lines. 3/16" dia. holes; for parachute cord or similar.
T201 ..... wt. ¼ oz. ..... **$ .07**

CORD TENSION ADJUSTER. Elastic link absorbs wind shock on guy lines.
T114 ..... wt. ½ oz. ..... **$ .50**

VISQUEEN CLAMPS. For attaching lines to plastic tarps. Rubber ball fits in metal wire frame. Package of 8.
N207 ..... wt. ¾ oz. ..... **$ 1.35**

GROMMET TABS. Grommets set in adhesive-backed plastic tabs readily attach to plastic sheeting. Package of 8.
N206 ..... **$ 1.00**

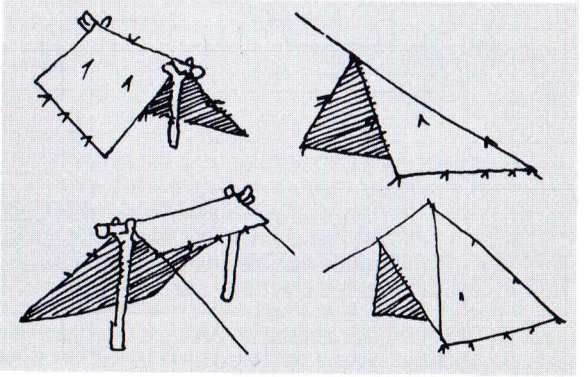
GROMMET SETTING KITS. Complete equipment for setting grommets, including setting die, heavy-duty hole punch, cutting board, 48 grommets, and instructions. Will not set spur grommets.
N310 ..... Size 0–¼" hole ..... **$ 5.50**
N311 ..... Size 1–5/16" hole ..... **$ 5.60**

SETTING DIES FOR SPUR GROMMETS
N320 ..... Size 0–¼" hole ..... **$ 7.00**
N321 ..... Size 1–5/16" hole ..... **$ 7.30**

HOLE PUNCHES.
N370/9 ..... for size 0 grommets ..... **$ 1.50**
N370/12 .... for size 1 grommets ..... **$ 1.50**

GROMMETS WITH WASHERS. Plain grommets are light-weight brass, suitable for most purposes. Spur grommets are heavier, have gripping teeth, can be set in webbing and heavy materials.
Plain Grommets–Size 0 or 1
N350 ..... Box of 144 ..... **$ 1.50**
Spur Grommets–Size 0 or 1
N351 ..... Box of 144 ..... **$ 4.50**

TRAILWISE TARP TENT. A 125" square of double-coated waterproof 1.9 Ripstop nylon. By using various combinations of the attached nylon tabs, this tarp may be pitched in a variety of configurations, making it among the most adaptable of tents. May also be used as a ground covering or tarpaulin. Comes with stuffsack and 25' of nylon cord. Color: beige.
T108 ..... wt. 43 oz. **$37.00**



Cat. No.	Fabric	Wt. oz. per sq. yd.	Finish	Width (inches)	Thread Count per inch	Tear Test in lbs. (ave.)	Colors	Uses	Price per lin. yd.
N113	Tenaya Nylon	1.6	downproof	42/43	150x128	5.5	blue, orange	sleeping bags, clothing	$2.10
N112	Supernyl Nylon	2.5	downproof	44/45	160x92	7.0	whiskey, royal blue, emerald, chianti, brick	sleeping bags, garments	$1.65
N107	Urethane Nylon Duck	7.8	urethane coated waterproof	42/43	60x45	56.0	brown, blue	packs, duffles, stuffsacks	$3.35
N104	Nylport Nylon	2.35	urethane coated waterproof	54/55	104x88	2.3	blue, green	raingear, tent floors ponchos	$2.00
N105	Nyltown	3.5	urethane coated waterproof	45/46	144x68	4.5	brown	raingear, tent floors ground sheets	$2.10
N119	Ripstop Nylon	1.9	downproof water repellent	44/45	112x100	8.0	green, orange	sleeping bags, garments, tents	$1.50
N120	Coated Ripstop Nylon	2.3	urethane coated waterproof	44/45	112x100	6.0	beige	tent flies, tarps	$2.10
N127	Nylon Netting	.75	----	37	50x50	--	grey	mosquito doors, sleeping bag baffling	$ .60
N130	60-40 Cloth—38% nylon (warp), 62% cotton (weft)	4.0	water repellent	45	110x80	12.0 (warp) 5.0 (weft)	blue, orange	garments	$2.75

ZIPPERS—NO. 5 NYLON CHAIN.
Single Slider, Single Pull. Closed both ends (pocket).
9", 12", 15", 17" ..... **$ 1.00**
Double Slider, Single Pull. Separating (garment).
28", 31", 32", 35" ..... **$ 2.00**
Double Slider, Double Pull. Separating (sleeping bag).
70", 72", 99" ..... **$ 2.75**

NORTHERN GOOSE DOWN. The perfect insulator for sleeping bags, parkas, etc. Packed in plastic bags.
White Goose Down
NG108 ..... ½ lb. **$11.50**
NG116 ..... 1 lb. **$22.25**
Grey Goose Down
NG008 ..... ½ lb. **$10.50**
NG016 ..... 1 lb. **$20.00**

NYLON WEBBING.
Heavy Weight.
HN012 ..... ½" black ..... ft. **$ .10**
HN100 ..... 1" blue or gold ..... ft. **$ .10**
HN112 ..... 1½" grey ..... ft. **$ .18**
Medium Weight.
MN100 ..... 1" grey ..... ft. **$ .06**

RIPSTOP REPAIR TAPE. 2" wide Ripstop material with adhesive backing. Quick repair for rips. Colors: red, blue, green, orange, yellow.
N100/R ..... 25' roll ..... **$ 2.25**
N100/F ..... per foot ..... **$ .10**

ENSOLITE. A unicellular foam material noted for insulating efficiency and shock absorbing quality. Will not soak up water. Used for padding under sleeping bags, shoulder pads, insulation, etc.
Full Sheets 42" x 56"
NE118 ..... 1/8" .. ave. wt. 12 oz. ..... **$ 4.75**
NE125 ..... ¼" .. ave. wt. 26 oz. ..... **$ 9.00**
NE138 ..... 3/8" .. ave. wt. 40 oz. **$12.50**
Half Sheets 21" x 56"
NE018 ..... 1/8" ... ave. wt. 6 oz. ..... **$ 2.50**
NE025 ..... ¼" .. ave. wt. 13 oz. ..... **$ 4.80**
NE038 ..... 3/8" .. ave. wt. 20 oz. ..... **$ 6.50**

VELCRO TAPE. ¾" hook-and-pile tape, used for closures on pockets, cuffs, flaps, etc. Strong and long lasting. Colors: beige, grey, orange, blue, green.
NV304 ..... **per foot $ .60**

SEAM SEALANT. A clear liquid for waterproofing seams. Bonds well to most fabrics including vinyl and polyurethane. Brush on; quick drying. 4 oz. can.
N901 ..... **$ 1.60**

RAINDRI. Water and stain repellent. A silicone formula for treatment of clothing, upholstery, canvas, and leather. 16 oz. spray can.
N905 ..... **$ 2.00**

COMBINATION EYELET AND SNAP TOOL KIT. Plier tool, with interchangeable parts for setting eyelets and snaps. Snaps and eyelets included.
N304 ..... wt. 7 oz. ..... **$ 2.50**
N306 ..... 100 eyelets ..... **$ .30**
N307 ..... 16 snaps ..... **$ .69**

DOT RIVETS. Strong, all-purpose 2-piece rivets. Set with hammer.
N411 ..... box of 100 ..... **$ 2.75**

BAG SNAPS. Steel clip. Nickel finish.
N420 ..... ½" ..... **$ .25**

SLIDE FASTENERS.
N415 ..... 1" ..... ea. **$ .05**

SCOTT BUCKLE. Quick-release buckle for ½" webbing.
N417 ..... **$ .25**

SPEEDY STITCHER SET. For sewing any heavy material, including leather, with lock stitch. Set contains sewing awl with bobbin and thread and three needles.
N201 ..... wt. 3½ oz. ..... **$ 1.50**

DELUXE SPEEDY STITCHER SET. Includes, in addition to the set described above, 180 yards of thread and 3 more needles.
N202 ..... wt. 7 oz. ..... **$ 3.25**

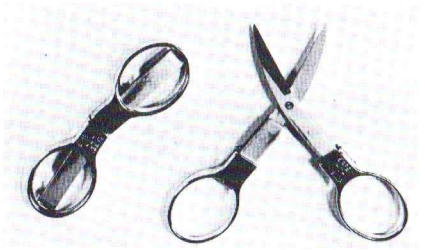
SPEEDY STITCHER THREAD. 30 yards.
N203 ..... Fine ..... **$ .30**
N204 ..... Heavy ..... **$ .40**

SPEEDY STITCHER NEEDLES
N205/l ..... Light ..... **$ .20**
N205/h ..... Heavy ..... **$ .20**
N205/hc ..... Heavy Curved ..... **$ .20**

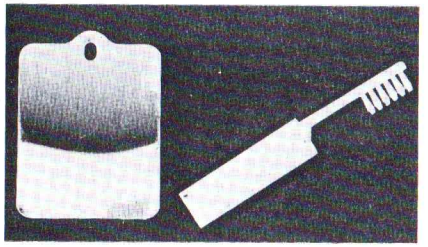
MOSQUITO HEADNET. Simple but effective net tube with drawstrings at each end.
G114 ..... wt. ½ oz. ..... **$ .40**

CUTTER'S SNAKEBITE KIT. An essential item for the outdoorsman. Consists of three suction cups, vial of antiseptic, lymph constrictor, and knife blade. 1" x 3".
E509 ..... wt. 1 oz. ..... **$ 3.00**

CUTTER'S FIRST AID KIT. Compact, pocket size unbreakable case with bandaids, burn ointment, surgical blade, antiseptic pads, aspirin, ammonia and sterile dressing.
E900 ..... wt. 3¼ oz. ..... **$ 4.00**



FOLDING SCISSORS. Heat-treated blades of surgical stainless steel are completely protected when scissors are folded. Blade length: 1½". Folded size: 1" x 3 1/8".
J525 ..... wt. 1 oz. ..... **$ 4.00**



METAL MIRROR. 3" x 4". Has hole for hanging.
G201 ..... wt. 2½ oz. ..... **$ .35**

TOOTHBRUSH. 2-piece brush. Hollow handle serves as carrying case. Packed length 3½". Comes in kit with toothpaste.
G202 ..... wt. ½ oz. ..... **$ 1.00**

WATER PURIFICATION TABLETS. Kills most germs and bacteria within 30 minutes. One small bottle contains 100 halazone tablets.
G113 ..... wt. 1½ oz. ..... **$ 1.50**

OFF REPELLENT. A clear liquid that repels mosquitos, gnats, etc. One application lasts hours. 1½ oz. bottle.
G110 ..... wt. 4 oz. ..... **$ .75**

CUTTER'S INSECT REPELLENT. Highly concentrated formula. Expensive but good. A little goes a long way. Plastic squeeze bottle.
G111 ..... wt. 1½ oz. ..... **$ 1.40**

SKREEN. A high altitude cream used by the conquerors of Mt. Everest. Prevents burning, permits tanning.
G104 ..... wt. 1¾ oz. ..... **$ 1.50**

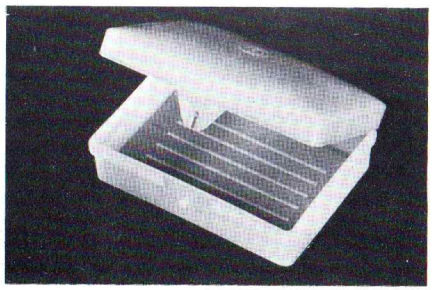
GLACIER CREAMS.
Red Tube. Prevents burning and tanning at high altitudes. 1 oz. tube.
G101 ..... wt. 1 oz. ..... **$ .85**
Green Tube. Prevents burning, allows tanning. 1 oz. tube.
G102 ..... wt. 1 oz. ..... **$ .75**

LUBRIDERM LOTION. Recommended for chapping, windburn, relief of sunburn. 4 oz. plastic bottle.
G105 ..... wt. 5 oz. ..... **$ 1.25**

SUNDARE. A clear lotion to prevent burning while promoting a tan. Not oily or sticky. 4 oz. plastic bottle
G103 ..... wt. 5 oz. ..... **$ 1.75**

A-FIL SUN STICK. For lips that are sensitive to sun and wind. Prevents chapping.
G108 ..... wt. 1 oz. ..... **$ 1.00**

GLASS GARD. Adjustable elastic band keeps glasses safely in place. Fastens simply and securely to your glass frames.
E510 ..... wt. ¼ oz. ..... **$ 1.00**

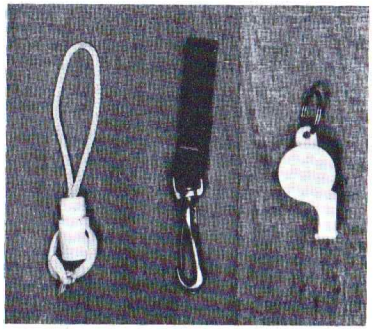


PLASTIC SOAP DISH. Hinged lid with catch. Holds 1 bar of soap. 4" x 2¾" x 1½".
G204 ..... wt. 1¼ oz. ..... **$ .25**

DRAWSTRING CLAMP. Spring loaded plastic clamp that will hold drawstrings up to parachute cord size on parkas, hoods, packs, etc.
R701 ..... wt. ¼ oz. ..... **$ .30**

BELT HOOK. Sturdy nylon strap with swivel snap hook for attaching cups, canteens, etc.
R702 ..... wt. 1 oz. ..... **$ .60**

PLASTIC WHISTLE. A must for safety in the mountains. Color: white.
E503 ..... wt. ½ oz. ..... **$ .30**



PLASTIC WASH BASIN. Heavy gauge Vinylite. 10" dia., 4½" height.
U660 ..... wt. 3½ oz. ..... **$ 1.10**

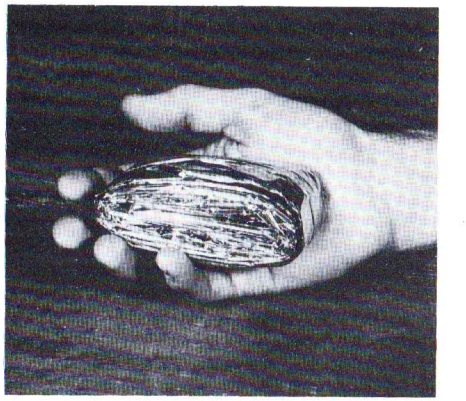
PLASTIC WATER BUCKET. Vinylite with handle. 7½" dia., 7½" height.
U661 ..... wt. 3½ oz. ..... **$ 1.10**

UTILITY POUCHES. Flat clear waterproof plastic envelopes with slide closures.
G206/811 ..... 8" x 11" ..... **$ .30**
G206/913 ..... 9½" x 13" ..... **$ .45**
G206/1216 ..... 12" x 16" ..... **$ .50**

NYLON CORD. 1/8" cord; 550 lb. test.
C050 ..... 50' hank ... 3 oz. .... **$ .75**
C100 .... 100' hank ... 6 oz. ... **$ 1.50**

ALPINE CANE. Imported from Germany. A good companion on mountain trails. Strong lightweight Weichsel wood. End is fitted with metal ferrule and spike. Average length 36".
MA301 ..... wt. 8 oz. ..... **$ 5.50**

TOR HIKING STAFF. This sturdy staff is handmade of kiln-dried ash. Leather wrist thong and non-slip tip. Walnut finish with urethane weatherproof coating. Sizes: 46", 50", 54", 58".
MA302 ... ave. wt. 13 oz. ..... **$ 7.50**



SPACE RESCUE BLANKET. Full-size (56" x 84") ultra-lightweight expendable emergency blanket based on a super-insulation material proven in space missions. Reflects up to 90% of a person's body heat back to him while keeping out rain, wind, and snow. Remains flexible at temperatures as low as 60 degrees below zero. Folds to a tiny 1½" x 2" x 4" and weights only 2 ounces. recommended for inclusion in any survival kit.
E702 ..... wt. 2 oz. ..... **$ 2.50**

SPACE SPORTSMAN'S BLANKET. 56" x 84" blanket reflects up to 80% of the body's warmth, yet folds to only 5½" x 8" and weighs a mere 11 ounces. Waterproof and windproof, it will never crack, rot, or mildew, and remains flexible at 60 degrees below zero. Pound for pound it is ten times warmer than wool; and with bound edges and grommeted corners, this versatile blanket may be used as a groundsheet, windbreak, tarpaulin, etc.
E701 ..... wt. 11 oz. ..... **$ 6.25**

FRENCH CANDLE LANTERN. Cylindrical aluminum lantern, 2" x 4½" when collapsed. Opens to 11½" long. Shielded glass chimney; spring mechanism keeps candle at uniform burning height. Safe and efficient.
E209 ..... wt. 3¾ oz. ..... **$ 4.25**

STEARENE CANDLES. For use with candle lanterns. Burning time over 3 hours.
E211 ..... wt. 2 oz. ..... **each $ .07**
1 dozen $ .80

MALLORY FLASHLIGHT. Compact flashlight that throws 250-foot beam. Molded plastic case. Comes with 2 AA Manganese batteries. Case is 4" long.
E105 ..... wt. w/batt. 3½ oz. ..... **$ 1.98**
E105/B Bulb for Mallory Flashlight ..... **$ .20**

BLEUET LANTERN. Uses same butane cartridge as Bleuet stove. Economical and simple: just turn valve and light. Burns 4½-5 hours at full-on position. Frosted glass globe for bright glare-free light. Height 12". Supplied with one cartridge.
E216 ..... wt. w/1 cart. 37 oz. **$11.00**

BUTANE CARTRIDGES.
U711 ..... wt. 10 oz. ..... **each $ .80**
U712 ..... wt. 3¾ lbs. .... **Box of six $ 4.50**

BLEUET MANTLES.
E217 ..... **$ .40**

FROSTED GLASS CHIMNEY. For Bleuet lanterns.
E218 ..... wt. 3 oz. ..... **$ 1.75**

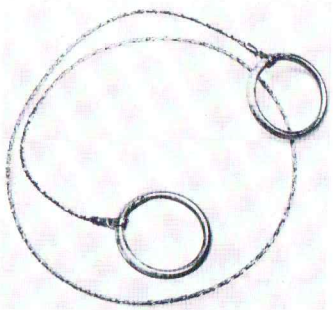
FRENCH WONDER HEADLAMP. Complete hand lamp in a compact metal case (2-5/8" x 4-1/8" x 1-1/8"). Separate bulb and reflector unit with head strap and bracket simply plugs into side of case for head lamp conversion.
E102 (without Batteries) ....wt. 6 oz. ..... **$ 4.75**
E102/A (Battery for above) . wt. 4 oz. ..... **$ .80**
E102/B (Bulb for above) ..... **$ .35**

JUSTRITE HEAD LAMP. Lightweight, non-corrosive, plastic case (5½" x 3" x 1½") fits in pocket or clips to belt. Lamp and switch in padded metal head piece which leaves both hands free. 1500 foot beam. Uses 4 size "D" batteries.
E101 ..... wt. 8 oz. ..... **$ 7.00**

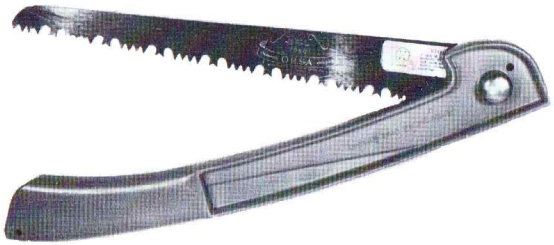
CARBIDE LAMP. Small miner's lamp. Burns carbide gas. Stands 3¾" high; ¾" flat hook for attaching to cave helmet.
E212 ..... 2½" reflector .... wt. 7 oz. ..... **$ 7.00**
E213 ..... 4" reflector .... wt. 7 oz. ..... **$ 7.00**

CLEANING AND REPAIR KIT.
E214 ..... **$ .95**

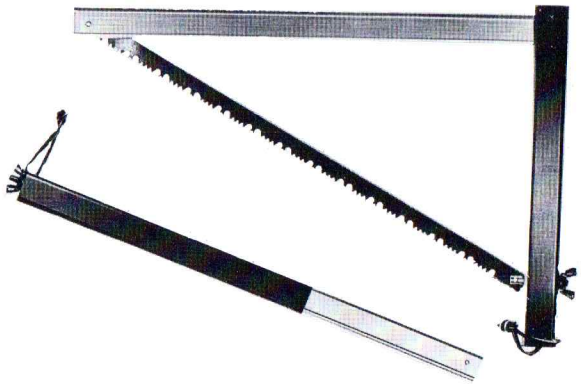
ALKALINE BATTERIES. Five to ten times the life of an ordinary battery.
E121 ..... "AA" size .... wt. 1 oz. ..... **$ .65**
E124 ..... "D" size .... wt. 4 oz. ..... **$ 1.00**



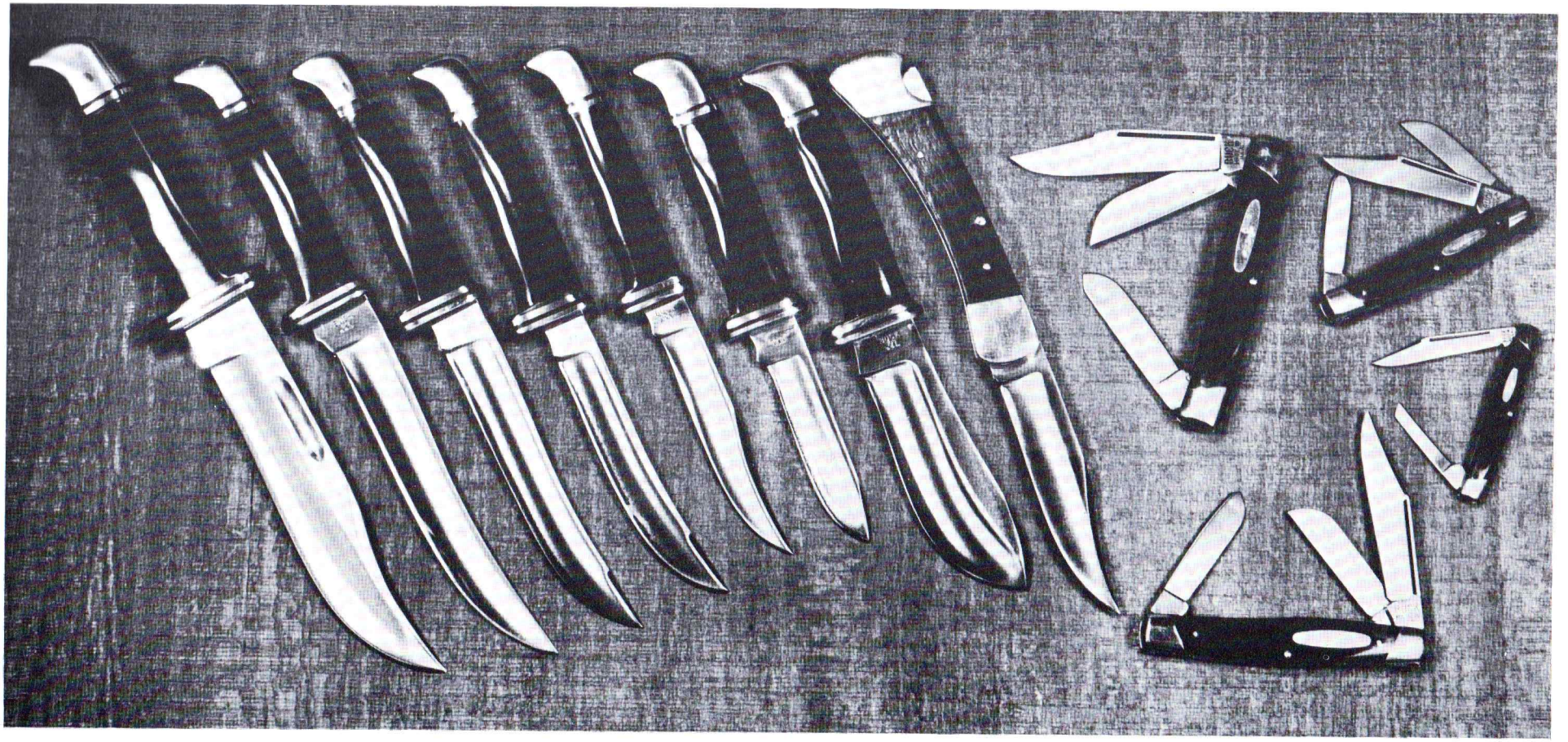
WIRE SAW. A fine survival kit item. Hardened steel; rugged, lightweight, compact, and inexpensive, this unique little saw fills a variety of needs. A bow may be cut of green wood and fitted to the end rings, making an efficient bucksaw.
J522 ..... wt. ½ oz. ..... **$ 1.25**



SWEDISH FOLDING SAW. Fast-cutting 11" blade folds safely into rugged plastic handle and locks open for use.
J500 ..... wt. 9 oz. ..... **$ 5.75**



SVEN SAW. Rugged folding bucksaw with tempered Swedish steel blade and frame of lightweight anodized aluminum. Single wing nut locks saw open or closed. 20" blade is completely and safely enclosed when saw is folded. Carrying size 23" x 1½" x ½".
J521 ..... wt. 16 oz. ..... **$ 6.50**
J521/b Extra Blades with stud wt. 16 oz. ..... **$ 1.75**



BUCK KNIVES. Each Buck Knife is entirely handmade and fully guaranteed for the lifetime of the purchaser. They are further guaranteed to hold an edge better than any other knife known today.

Buck sheath knives are supplied with a non-reflective black sheath of tough cowhide with a snap fastened safety flap.

SPECIAL. A heavy-duty Bowie-styled knife with 6" blade. Beautifully balanced and shaped.
J119 ..... wt. 12 oz. **$20.00**

FISHERMAN. 5¾" slightly curved flexible blade makes this an excellent filleting knife.
J121 ..... wt. 6 oz. **$14.00**

PATHFINDER. Heavy-duty 5" blade curves upward at tip for skinning. An excellent general use hunting and fishing knife.
J105 ..... wt. 7 oz. **16.00**

PERSONAL. Mr. Buck's original design has never required alteration. 4½" blade combines upswept point of skinner with slender blade of small game knife.
J118 ..... wt. 6½ oz. **$14.00**

WOODSMAN. 4" straight blade with fine point for cleaning fish or dressing out small game as well as general camp use.
J102 ..... wt. 6 oz. **$13.00**

CAPER. The smallest Buck sheath knife. 3½" blade makes this ideal for more precision uses; cleaning and dressing pan fish, small game, and birds.
J116 ..... wt. 5¾ oz. **$14.00**

SKINNER. Broad 4" blade. A special purpose knife for skinning.
J103 ..... wt. 8½ oz. **$18.00**

FOLDING HUNTER. 4" blade pivots on ¼" bearing and has positive lock in open position. Handle is golden-grain Macassar ebony wood with solid brass bolsters and liner cast in one piece. May be carried in pocket or sheath. An ideal heavy-duty outdoor knife for those preferring a folding blade. Overall length when closed is 5".
J110 ..... wt. 8 oz. **$20.00**

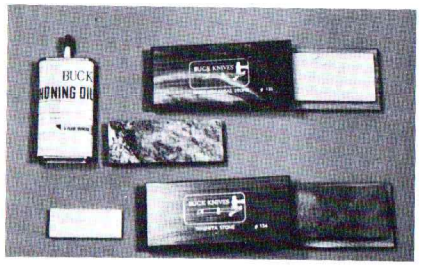
WRANGLER. A hefty, man-sized pocket knife with a lifetime guarantee. Three blades of Buck quality steel. Brass liners, non-slip grips. Longest blade 3½". Overall length closed 4¼".
J127 ..... wt. 4 oz. **$18.00**

STOCKMAN. Identical to Wrangler except for size. Longest blade is 3". Overall length closed 4".
J120 ..... wt. 3 oz. **$15.00**

CADET. A ¾ version of the Stockman pocket. knife. Longest blade is 2½". Overall length closed 3¼".
J123 ..... wt. 1¾ oz. **$12.00**

LANCER. The smallest Buck pocket knife. Two blades. Longest blade is 2". Overall length closed 2–5/8".
J125 ..... wt. ½ oz. ..... **$ 7.00**

BUCK HONING SUPPLIES. Everything you need to keep your knives shaving sharp.

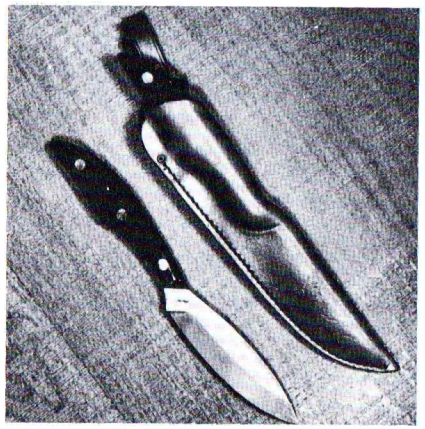


HONING KIT. Honing oil, Standard Washita stone and Standard Arkansas stone packed in plastic case.
J133 ..... wt. 13 oz. ..... **$ 4.75**

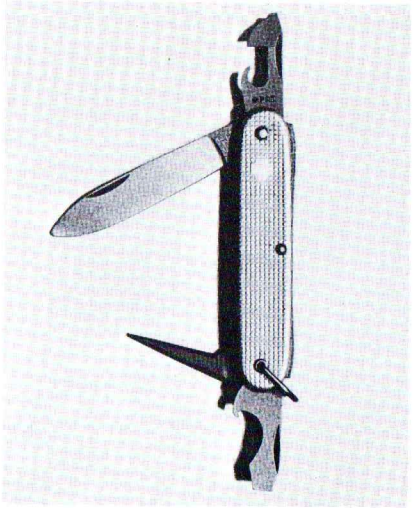
HONING OIL. Promotes abrasive action of stone and speeds up sharpening.
J132 ..... wt. 4 oz. .....**$ .80**

WASHITA STONE. For fast sharpening.
Standard (1¾" x 4½") Packed in plastic case.
J131 ..... wt. 4 oz. ..... **$ 1.75**
Deluxe (2" x 5") Packed in cedar case.
J134 ..... wt. 8 oz. ..... **$ 6.00**

ARKANSAS STONE. For that final razor edge.
Standard (1-1/8" x 2¾") Packed in plastic case.
J130 ..... wt. 1 oz. ..... **$ 2.50**
Deluxe (2 ' x 5") Packed in cedar case.
J135 ..... wt. 6½ oz. ..... **$ 9.00**

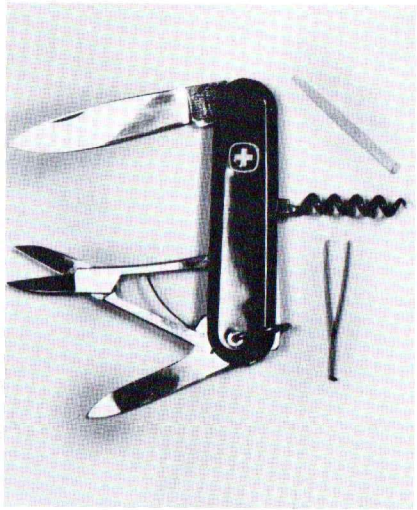


RUSSELL BELT KNIFE. This unusual knife has received many design awards for beauty and function. Handcrafted in Nova Scotia. High carbon Swedish steel blade holds a keen cutting edge. Rosewood handle is secured by three brass rivets. Molded cowhide scabbard. 4" blade.
J150 ..... wt. 6 oz. **$11.00**



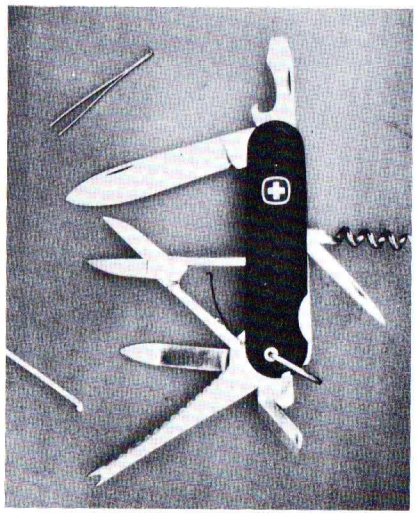
SWISS ARMY ISSUE KNIFE. Blade – Can Opener – Screwdriver – Scraper – Punch.
J701 ..... wt. 3 oz. ..... **$ 4.80**

SWISS ARMY KNIFE NO. 730. Blade – Nail File – Can Opener – Cap Lifter – Corkscrew – Regular Screwdriver – Awl – Tweezers – Toothpick – Lanyard Ring.
J730 ..... wt. 2½ oz. ..... **$ 8.00**



SWISS ARMY KNIFE NO. 532. Blade – Nail File – Scissors – Corkscrew – Tweezers – Toothpick – Lanyard Ring.
J532 ..... wt. 2 oz. ..... **$ 9.00**

SWISS ARMY KNIFE NO. 727. Blade – Nail File – Scissors – Can Opener – Hook Disgorger – Awl – Corkscrew Regular Screwdriver – Tweezers – Toothpick – Lanyard Ring.
J727 ..... wt. 3 oz. **$13.00**

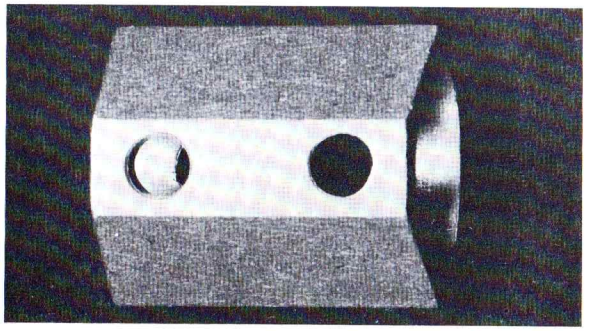


SWISS ARMY KNIFE NO. 16935. Blade – Nail File – Magnifier – Screwdrivers – Can Opener – Cap Lifter – Reamer – Phillips Screwdriver – File – Scissors – Saw – Metal File – Fish Scaler w/Hook Disgorger – Tweezers – Toothpick – Lanyard Ring.
J16395 ..... wt. 4¾ oz. **$21.00**

EXECUTIVE SWISS ARMY KNIFE. Diminutive size (2¼" long) conceals a variety of useful functions: Pen Blade, Nail File and Scissors.
J782 ..... wt. ½ oz. ..... **$ 6.50**

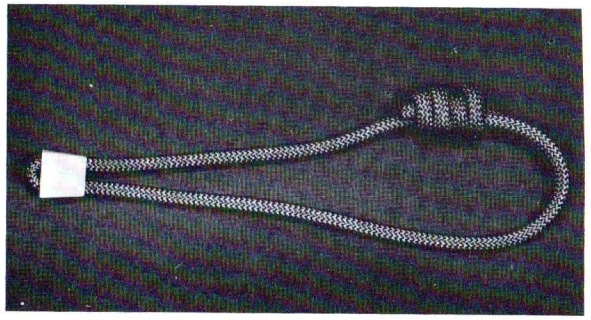
We are urging the use of chocks in a new era of "clean climbing" in order that the present piton scars in cracks of overused areas need not grow.

CHOUINARD CHOCKS.



CHOUINARD HEXENTRICS. Six surfaces in cross section. Wedge ends.

HY501	7/16" x 5/8"	¼ oz.	$ .80
HY502	½" x ¾"	¼ oz.	$ .85
HY503	5/8" x 7/8"	¼ oz.	$ .90
HY504	¾" x 1"	½ oz.	$ 1.00
HY505	7/8" x 1¼"	¾ oz.	$ 1.10
HY506	1" x 1½"	1 oz.	$ 1.20
HY507	1¼" x 1¾"	2 oz.	$ 1.30
HY508	1½" x 2¼"	2¾ oz.	$ 1.40
HY509	2" x 2¾"	4¼ oz.	$ 1.50
HY510	2½" x 3¼"	6¾ oz.	$ 1.75



CHOUINARD STOPPERS. Wedge-shaped jam nuts.

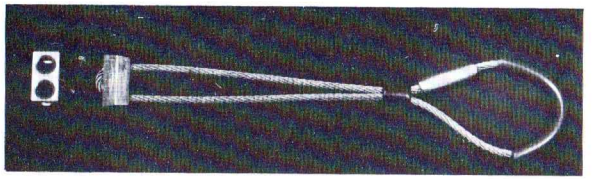
Wired

HY701	1/8" x 3/8"	¼ oz.	$ 1.50
HY702	3/16" x 7/16"	½ oz.	$ 1.60
HY703	¼" x ½"	1¼ oz.	$ 1.75
HY704	3/8" x 5/8"	1½ oz.	$ 1.90

Unwired

HY704/A	3/8" x 5/8"	½ oz.	$ .80
HY705	½" x ¾"	½ oz.	$ .80
HY706	5/8" x 1"	½ oz.	$ 1.00
HY707	¾" x 1¼"	1½ oz.	$ 1.20

CLOGWYN CLIMBING NUTS. Artifical chocks. Hexs and wedges.

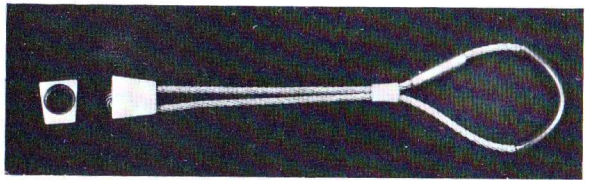


HEXAGONAL CHOCKS.

HCH-1	¼ oz.	$ .50
HCH-2	3/8 oz.	$ .60
HCH-3	½ oz.	$ .65
HCH-4	¾ oz.	$ .75
HCH-5	7/8 oz.	$ 1.25
HCH-6	1 oz.	$ 1.50

HEXAGONALS WITH WIRE SLING

HCH/W-0	¾ oz.	$ 1.75
HCH/W-1	1 oz.	$ 1.75
HCH/W-2	2 oz.	$ 1.75
HCH/W-3	2¼ oz.	$ 1.75
HCH/W-4	2½ oz.	$ 1.75

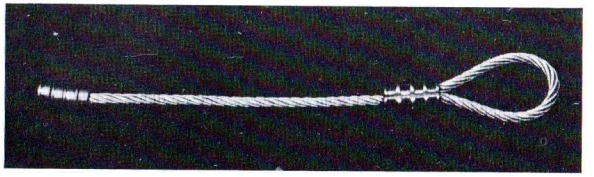


WEDGE CHOCKS

HCW-2	1/8 oz.	$ .60
HCW-3	1/8 oz.	$ .60
HCW-4	¼ oz.	$ .60
HCW-5	¼ oz.	$ .60
HCW-6	¾ oz.	$ .60

WEDGES WITH WIRE SLING

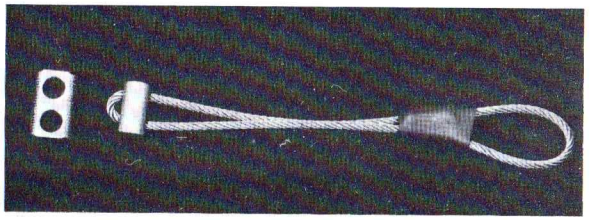
HCW/W-1	1½ oz.	$ 1.75
HCW/W-2	2 oz.	$ 1.75
HCW/W-3	2½ oz.	$ 1.75
HCW/W-4	3 oz.	$ 1.75



COPPERHEAD NUTS. Copper jam-nuts with wire slings. Graduated diameter sizes from 1/8" to ½".

HF101	¼ oz.	$ 1.50
HF102	½ oz.	$ 1.50
HF103 Long	1 oz.	$ 1.50
HF103/A Short	¾ oz.	$ 1.50
HF104 Long	1½ oz.	$ 1.50
HF104/A Short	1 oz.	$ 1.50
HF105 Long	2½ oz.	$ 2.25
HF105/A Short	2 oz.	$ 2.25

PECK CRACKERS. Artificial chockstones with circular cross-section. Knurled for better grip.

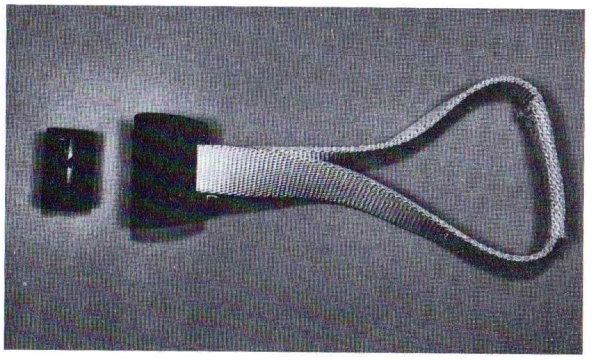


Plain Crackers

HPC/B8	½" dia.	1/8 oz.	$ .90
HPC/B10	5/8" dia.	¼ oz.	$ .90
HPC/B13	13/16" dia.	½ oz.	$ 1.00
HPC/B16	1" dia.	1½ oz.	$ 1.25

Cabled Crackers.

HPC/A4	¼" dia.	1,100 lb. test	½ oz.	$ 2.10
HPC/A5	5/16" dia.	1,650 lb. test	¾ oz.	$ 2.10
HPC/A7	7/16" dia.	2,450 lb. test	1¼ oz.	$ 2.10
HPC/A9	9/16" dia.	5,000 lb. test	1½ oz.	$ 2.10
HPC/A12	¾" dia.	5,000 lb. test	2½ oz.	$ 2.10
HPC/A16	1" dia.	5,000 lb. test	3¼ oz.	$ 2.10



PECK NYLON CHOCKS. Lightweight chocks. Available with sewn slings which test at over 5000 lbs. Circular section with beveled ends.

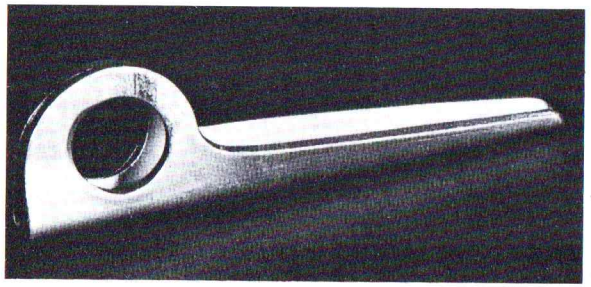
Chocks

HPN-1	1"	1 oz.	$ 1.25
HPN-2	1½"	2 oz.	$ 2.25

Chocks with sling

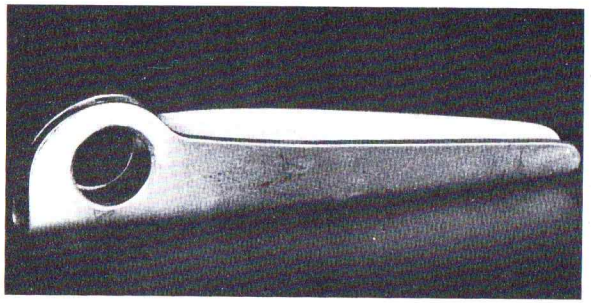
HPN/W-1	1"	2 oz.	$ 2.50
HPN/W-2	1½"	3 oz.	$ 3.50

CHOUINARD PITONS



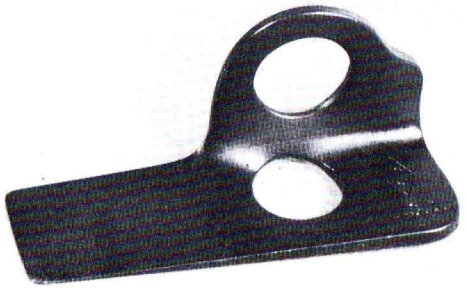
WEDGE ANGLES

HY102	½"	2 oz.	$ 1.00
HY158	5/8"	2 oz.	$ 1.00



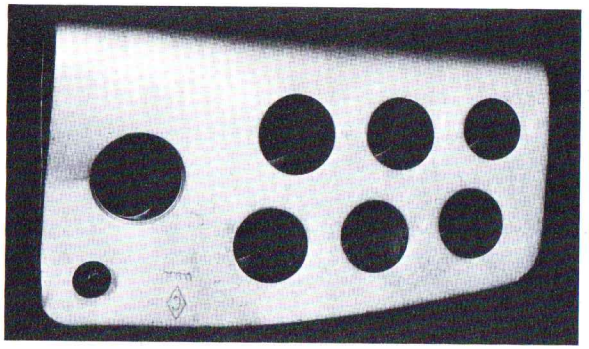
REGULAR ANGLES

HY034	¾"	3 oz.	$ 1.10
HY010	1"	4 oz.	$ 1.15
HY014	1¼"	4½ oz.	$ 1.35
HY015	1½"	5 oz.	$ 1.65



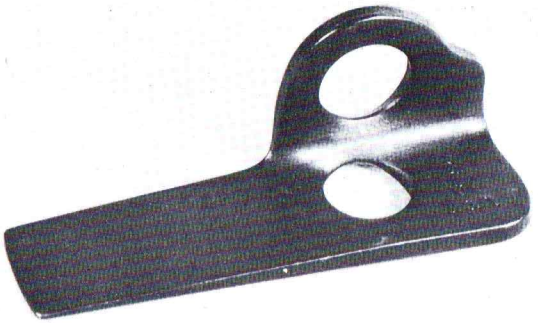
KNIFEBLADES

HY004	Standard	1½ oz.	$ 1.25
HY005	Thick	1¾ oz.	$ 1.25



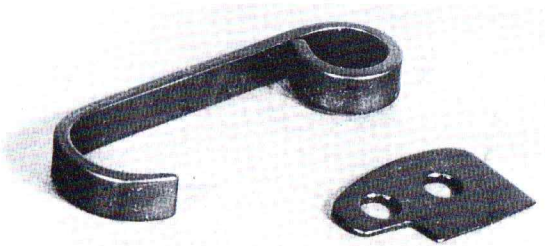
ALUMINUM BONGS

HY610	2"	4 oz.	$ 2.50
HY611	2½"	6 oz.	$ 2.70
HY612	3"	8 oz.	$ 3.00
HY613	4"	10 oz.	$ 3.25



BUGABOO PITONS

HY410	Short thin	1½ oz.	$ 1.50
HY411	Long thin	3 oz.	$ 1.50
HY412	Short medium	3 oz.	$ 1.75
HY413	Long medium	3½ oz.	$ 1.75
HY414	Short thick	3½ oz.	$ 1.85
HY415	Long thick	5 oz.	$ 1.85

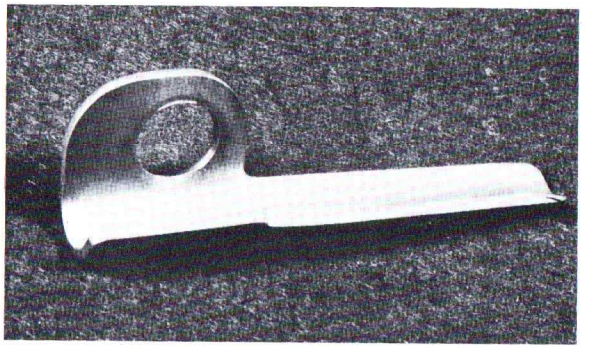


CLIFFHANGER

HY009 ..... 2 oz. ..... $ 1.00

RURP

HY000 ..... ¾ oz. ..... $ 1.00



PECK PITONS. Stainless steel with unique circular section.

Shallow Section

HP106	4"	2 oz.	$ 1.60
HP107	2½"	1½ oz.	$ 1.60
HP108	1¼"	1 oz.	$ 1.60

Deep Section

HP109	4"	3 oz.	$ 1.60
HP110	2½"	2 oz.	$ 1.60
HP111	1¼"	1¼ oz.	$ 1.60

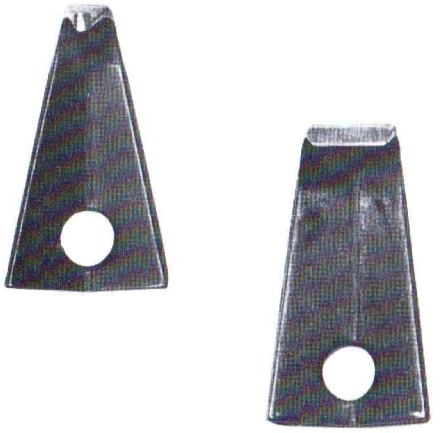
LEEPER "Z" SECTION PITONS'

REGULAR LENGTH.

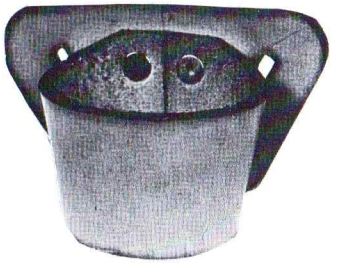
HL AA	¼"	wt. 2 oz.	$ 1.25
HL A	5/16"	wt. 2 oz.	$ 1.25
HL B	7/16"	wt. 3 oz.	$ 1.25
HL C	9/16"	wt. 4½ oz.	$ 1.50

STUBBY LENGTH.

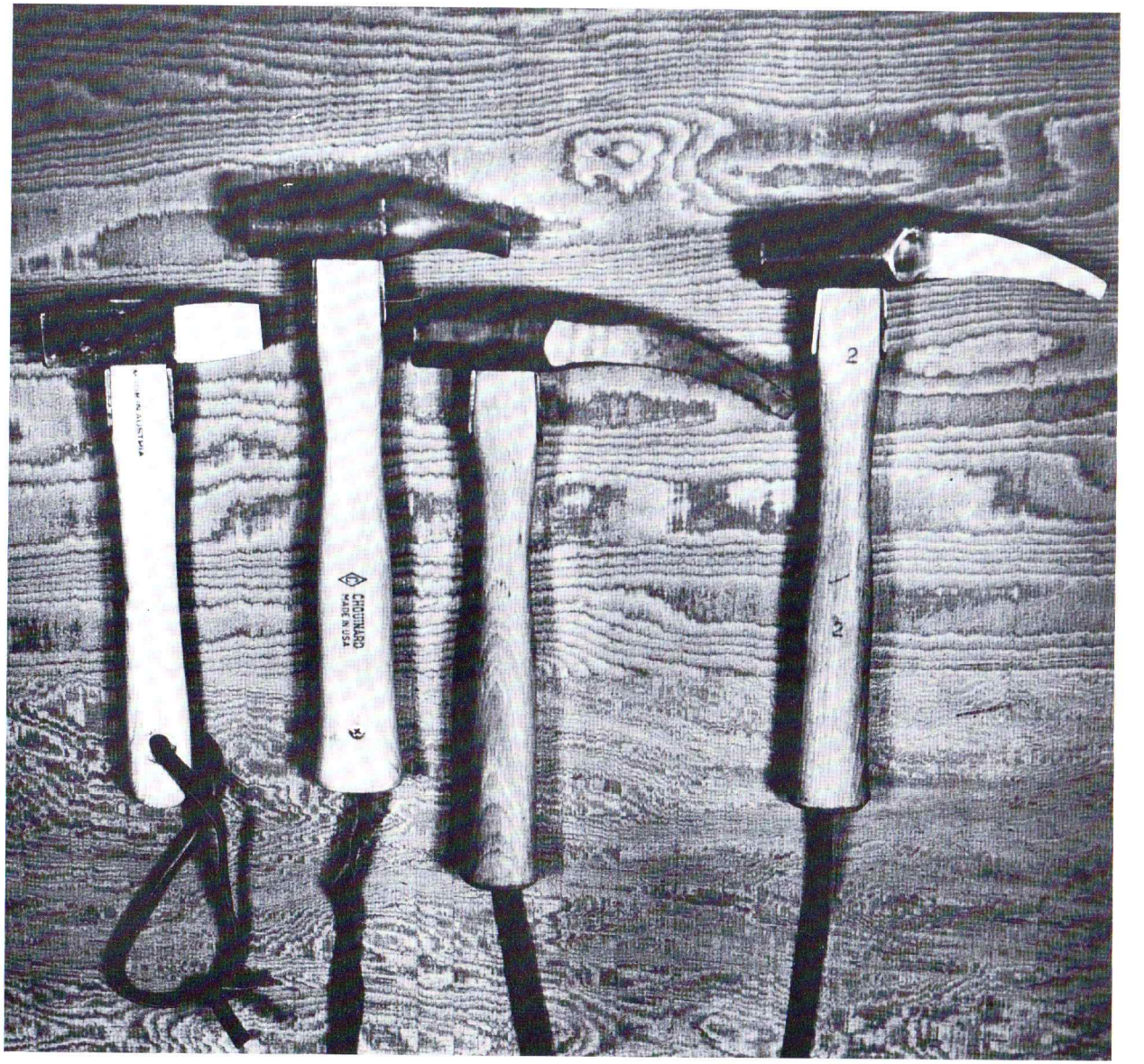
HL AS	5/16"	wt. 2½ oz.	$ 1.25
HL BS	7/16"	wt. 2½ oz.	$ 1.25
HL CS	9/16"	wt. 3 oz.	$ 1.50



LOGAN CLIFF HANGER. Three point contact with rock for stability. Will not rotate off hold. Use with ½" tubular webbing.
HL401 (Narrow) ..... ¾ oz. ..... **$ 1.00**
HL402 (Wide) ..... 1 oz. ..... **$ 1.00**



LEATHER HAMMER HOLSTER. Riveted construction. Slits for belt. Holster mounts close to belt so it will not twist when pulling hammer out.
HH110 ..... wt. 1½ oz. ..... **$ 1.65**



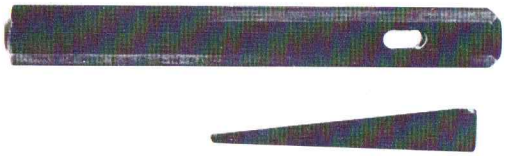
PITON HAMMER MODEL "C". German made. Chisel head is anchored with iron straps. Ash handle with leather thong.
HH101 ..... wt. 20 oz. ..... **$ 6.25**

CHOUINARD YOSEMITE HAMMER. Perfectly balanced 18 oz. head is mounted on a handle of American hickory. Blunt pick serves dual purpose: to pound pitons in tight places and to pry when necessary. Each hammer comes with a permanently attached shoulder sling.
HH202 ..... wt. 24 oz. **$14.00**

CHOUINARD ALPINE HAMMER. Long, narrow, drooped pick with serrations at tip for use as an ice dagger on hard ice. Also good for cleaning ice out of cracks and chopping steps at close quarters.
HH201 ..... wt. 22 oz. **$16.00**

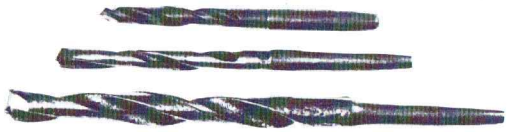
CHOUINARD CRAG HAMMER. Made specially for free climbing. Features a lightweight head and long blunt point for use with chocks. Comes with shoulder sling.
HH203 ..... wt. 26 oz. **$14.00**

BOLT EQUIPMENT

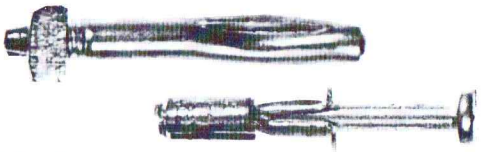


HOLDER FOR ¼" AND 3/8" DRILLS.
HN100 ..... wt. 8 oz. ..... **$ 2.50**

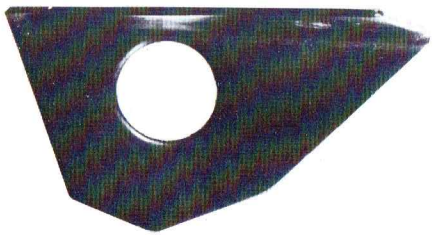
EXTRA DRIFT PIN FOR HOLDER.
HN101 ..... ¾ oz. ..... **$ .50**



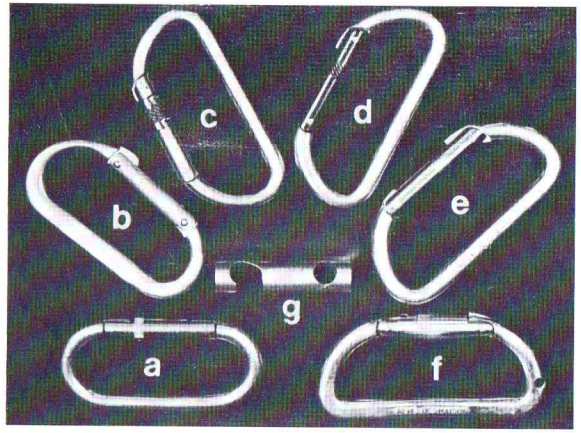
DRILLS: Two-flute for faster drilling.
¼" size for Rawl bolts—No. 12.
HN214 ..... 1 oz. ..... **$ 1.70**
¼" size for Star Dryvins—No. 14
HN414 ..... 1 oz. ..... **$ 1.85**
3/8" size for Rawl or Star Dryvins.
HN238 ..... 1¼ oz. ..... **$ 2.75**



BOLTS: Rawl type:
HN514 ... ¼" stud x 1½" ..... ¼ oz. ..... **$ .20**
HN614 .... ¼" stud x 2" ..... ½ oz. ..... **$ .25**
HN638 . 3/8" stud x 2½" ..... 1¼ oz. ..... **$ .35**
Star Dryvin type:
HN714 ..... ¼" x 1" ..... ¼ oz. ..... **$ .13**
HN838 ..... 3/8" x 1½" ..... ¾ oz. ..... **$ .22**
HN938 ..... 3/8" x 2" ..... ¾ oz. ..... **$ .31**



LEEPER CARABINER HANGER. Chrome-móly steel. Specify ¼" or 3/8" bolt size.
HL914 ..... ¼" ... wt. 7/8 oz. ..... **$ .35**
HL938 ..... 3/8" ... wt. 7/8 oz. ..... **$ .35**



a OVAL CARABINER. Aluminum alloy. tests about 2700 lbs.
HK102 ..... wt. 2 oz. ..... **$ 2.00**

b CHOUINARD CARABINER. Aluminum alloy. Tests about 4500 lbs.
HK100 ..... wt. 2–1/3 oz. ..... **$ 3.50**

c BONAITI LOCKING BL CARABINER. Aluminum alloy. Tests about 5000 lbs.
HK216 ..... wt. 2-4/5 oz. ..... **$ 3.50**

d BONAITI BC CARABINER. Aluminum alloy. Tests about 4800 lbs.
HK215 ..... wt. 2-3/4 oz. ..... **$ 3.00**

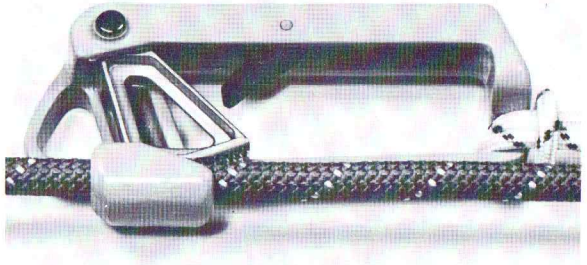
e BONAITI HEAVY-DUTY BCX CARABINER. Aluminum alloy with gold anodized gate. Tests about 5500 lbs.
HK217 ..... wt. 3¼ oz. ..... **$ 3.75**

f RENÉDEMAISON CARABINER. Extra strong aluminum alloy. Barrel-shaped gate, convex tension bar. Tests about 6380 lbs.
HK105 ..... wt. 3 oz. ..... **$ 3.75**

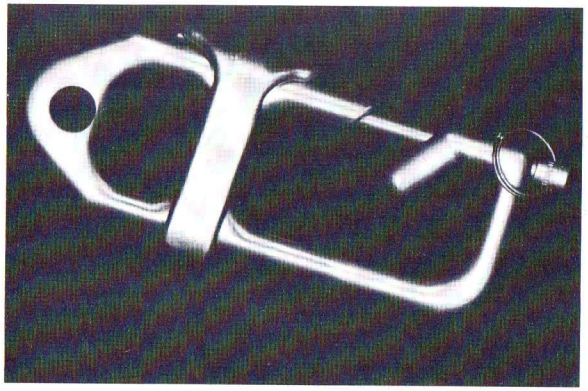
g ALUMINUM BRAKE BAR. For friction braking on rappels. Machined to fit oval carabiner.
HK300 ..... wt. 1¼ oz. ..... **$ 1.00**

ROBBINS BELAY SEAT. A continuous sling of 1" nylon webbing. Seat is strong Ripstop nylon.
M112 ..... wt. 2 oz. ..... **$ 5.00**

ROBBINS BIVOUAC HAMMOCK. This type of hammock is well established for use on extended climbs on the vertical walls of Yosemite. 1" nylon web and Ripstop nylon. Measures 33" x 62".
M114 ..... wt. 7 oz. **$13.00**



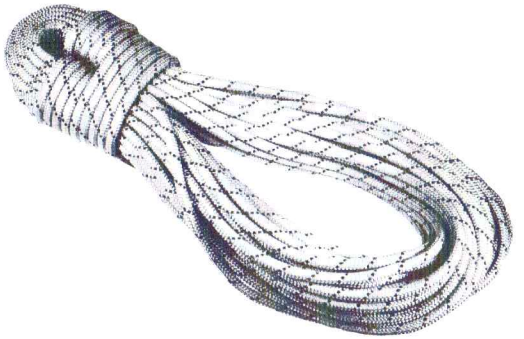
JUMAR ASCENDERS. Swiss-made device for ascending ropes. Replaces the use of Prusik knots. Strongly constructed of cast aluminum alloy. Can be used on ropes ¼" to ½" diameter. Slings included. Used in pairs.
HE103 ..... wt. 14 oz./pr. ..... **pair $32.00**
..... right or left ..... **each $16.00**



HOBBS RESCUE HOOK. Heavy-duty descent control device. Drop-forged of aluminum alloy. Ideally suited for rescue work as descent can be stopped at will with both hands free.
HE 105 ..... wt. 15 oz. **$25.00**

NYLON CLIMBING SLINGS. Loops made from 1" width tubular nylon, strongly stitched with nylon thread. Test 4100 lbs.
M105/44 .... 44" circle .... wt. 2 oz. ..... **$ 1.25**
M105/48 .... 48" circle . wt. 2-1/8 oz. ..... **$ 1.35**
M105/51 .... 51" circle ... wt. 2¼ oz. ..... **$ 1.65**
M105/96 .... 96" circle .... wt. 4 oz. ..... **$ 1.75**

DIRECT AID SLINGS. Two 6-foot ladders of 1" heavy-duty nylon webbing. Each has four strongly stitched loops, reinforced and stiffened at bottom to provide steps.
M113 ..... wt. 14 oz. ..... **per pair $10.50**



EDELWEISS ROPE. Heavy density perlon. Kernmantle construction combining great strength, elasticity and flexibility. Will not kink. Stiffer mantle provides great dynamic strength and resists abrasion. Colors: blue or red.

CP501	11 mm x 150′	4840 test	8 lbs.	**$49.00**
CP502	11 mm x 165′	4840 test	8 lbs. 6 oz.	**$53.00**
CP511	9 mm x 120′	3740 test	4 lbs. 6 oz.	**$29.50**
CP512	9 mm x 150′	3740 test	5 lbs. 7 oz.	**$34.00**

EDELRID ROPE. Perlon. Kernmantle construction. Continuous filaments provide great strength with moderate flexibility. High elasticity for shock absorption. Does not twist or spin. Colors: blue, red, or gold.

CP101	11 mm x 150′	4800 test	7 lbs.	**$49.00**
CP102	11 mm x 165′	4800 test	7 lbs. 12 oz.	**$53.00**
CP111	9 mm x 150′	3200 test	4 lbs. 2 oz.	**$34.00**
CP112	9 mm x 165″	3200 test	5 lbs. 2 oz.	**$36.50**
CP120	7 mm bulk	2200 test	**per foot $**	**.15**
CP121	5 mm bulk	1200 test	**per foot $**	**.10**

PLYMOUTH GOLDLINE CLIMBING ROPE. Gold-colored nylon fiber woven into 3-strand "hard lay" especially for mountaineering use. 7/16″ diameter recommended for continuous climbing. 3/8″ diameter satisfactory for moderate climbing and most belaying requirements on ice or snow.

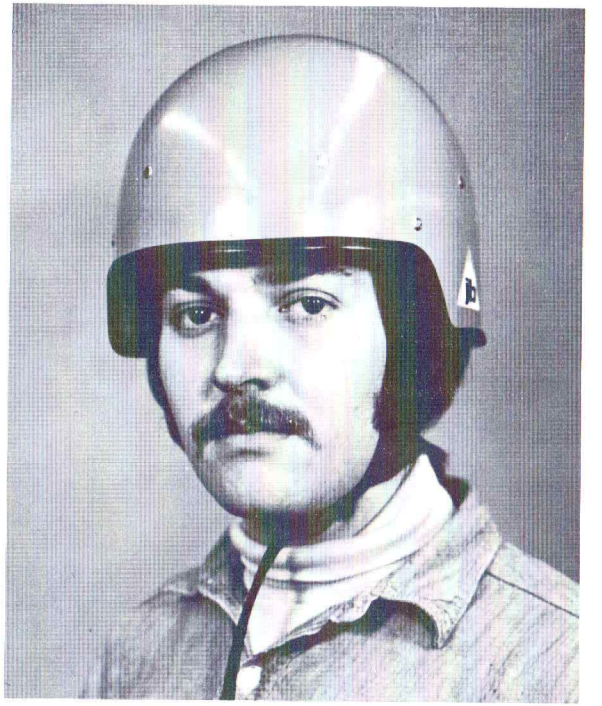
CG712	7/16″ x 120′	5550 test	7-1/8 lbs.	**$30.00**
CG715	7/16″ x 150′	5550 test	8¾ lbs.	**$37.50**
CG312	3/8″ x 120′	4000 test	4-1/8 lbs.	**$18.00**
CG315	3/8″ x 150′	4000 test	5½ lbs.	**$23.00**
CG716	7/16″ bulk		**per ft. $**	**.25**
CG038	3/8″ bulk		**per ft. $**	**.14**
CG014	¼″ bulk	1950 test	**per ft. $**	**.08**

EDELRID FLAT NYLON WEBBING. For use with jam-nuts.

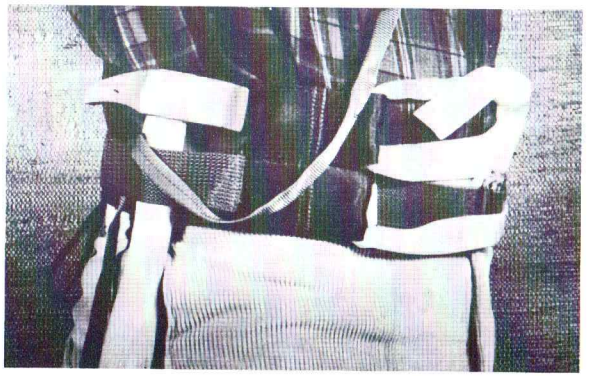
HN212	½″ width	1300 test	**per foot $**	**.08**
HN234	¾″ width	2700 test	**per foot $**	**.08**

NYLON TUBULAR SLING MATERIAL.

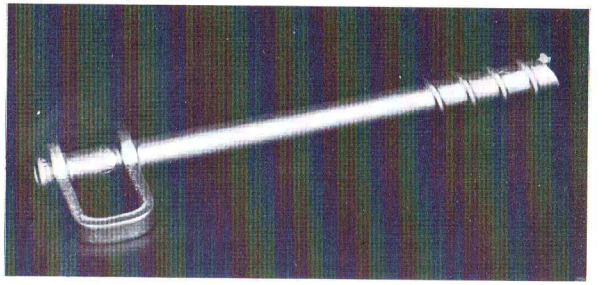
TN001	1″ width	4100 test	**per ft. $**	**.10**
TN012	5/8″ width	1850 test	**per ft. $**	**.08**
TN096	9/16″ width	1000 test	**per ft. $**	**.07**



JOE BROWN HELMET. Designed and manufactured by Joe Brown. Meets British Mountaineering Council requirements for impact and shock absorbency. Inner liner is removable for warm weather ventilation. Adjustable design provides a good fit. Small—6½ to 6-7/8, medium—7 to 7¼, large—7-3/8 to 7¾. Colors: red or blue.
HT101 ..... ave. wt. 1 lb. 14 oz. **$19.50**

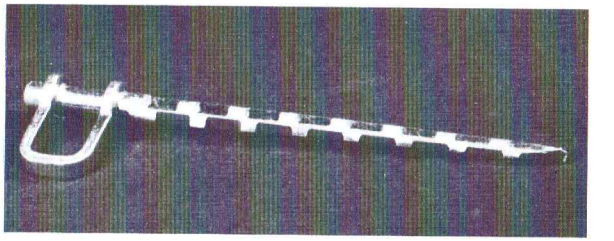


SWAMI BELT. Allows easy tie-in for general climbing. Offers good support to small of back. Particularly useful for tension climbing. Strong nylon web construction. Hammer holder and rope loop.
M101 ..... wt. 8 oz. ..... **$ 6.00**

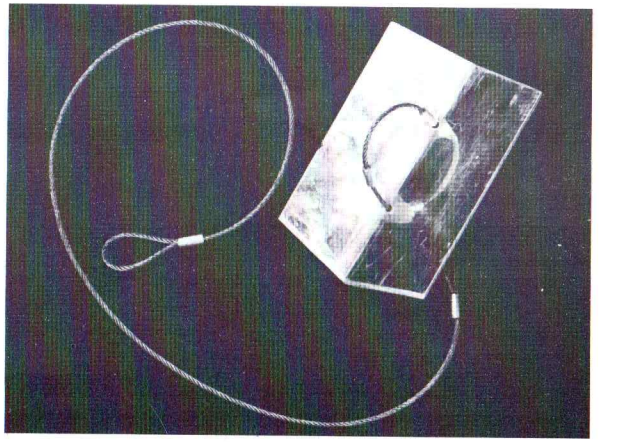


SALEWA HOLLOW TUBE ICE SCREW. A machine-tooled ice screw designed for maximum strength and holding power.

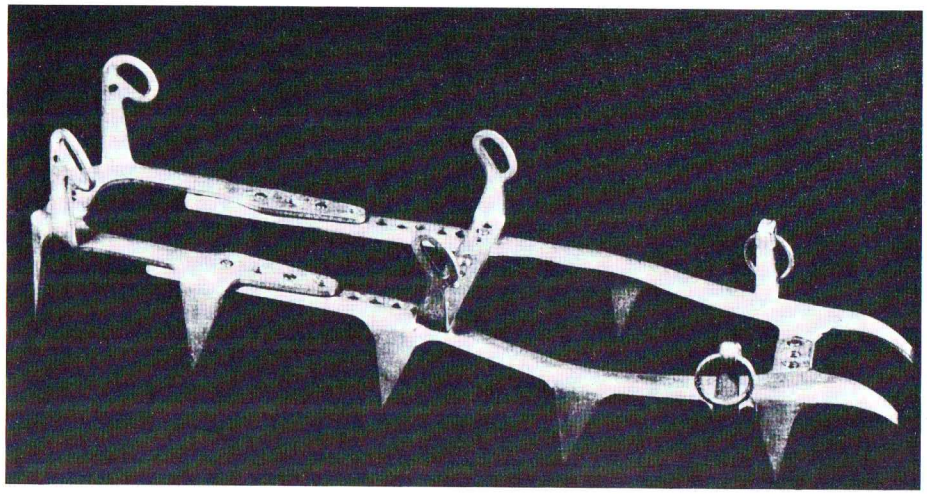
HS905	21 cm.	wt. 3 oz.	**$ 5.50**
HS906	25 cm.	wt. 4 oz.	**$ 5.50**
HS907	35 cm.	wt. 6 oz.	**$ 6.50**

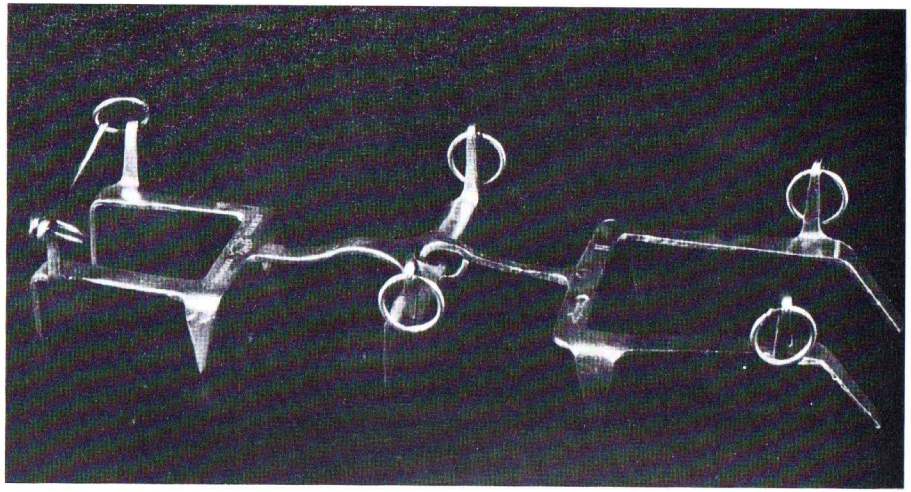


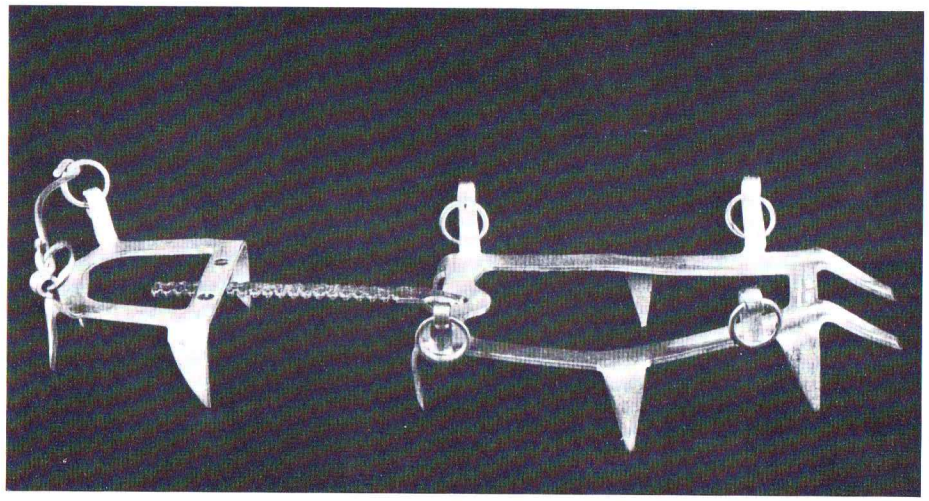
WART HOG. Imported spiral-notched ice piton with superior holding characteristics.
HS200 ..... wt. 5 oz. ..... **$ 5.50**

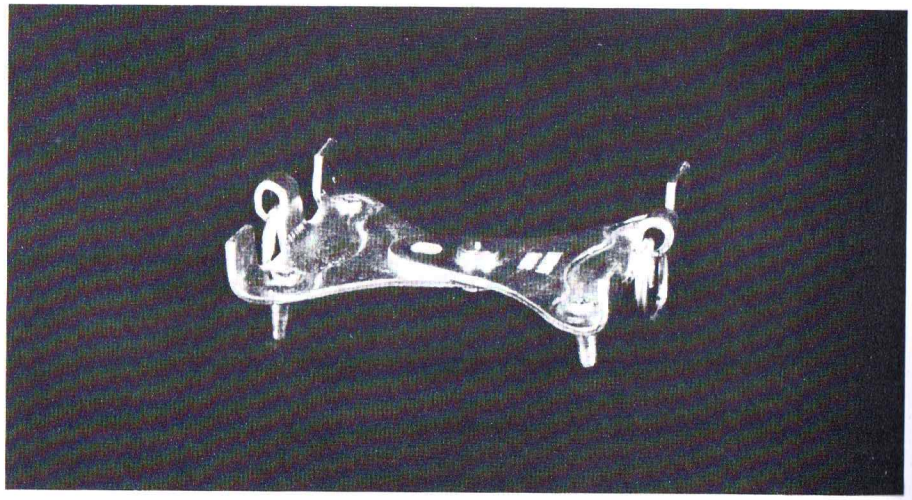


PECK SNOW ANCHOR. Angled aluminum plate with steel cable loop. Provides more security than ice axe belays. Self-adjusting in all directions. Instructions included.
HS100 ..... wt. 14 oz. ..... **$ 6.00**









CHOUINARD TWELVE POINT CRAMPONS. Fully adjustable in length and width to provide perfect fit on boot sizes 5 to 14. Rigid design for unexcelled point penetration on technical ice. Points are sized to work equally well on snow or ice. Alloy steel for low-temperature strength. Recommended for highly technical climbs only. Neoprene straps included.
MC700 ..... wt. 31 oz. **$40.00**

SALEWA ADJUSTABLE TWELVE POINT CRAMPONS. Three sizes to fit any boot, sizes 6 to 13, any width. An exceptionally strong crampon for the most difficult of ice climbing. Send boot size. Straps not included.
MC612 ..... wt. 22 oz. **$20.00**

GRIVEL TEN POINT CRAMPONS. Non-technical general use crampons. Strong steel alloy. Send outline of boot sole when ordering. Straps not included.
MC401 ..... ave. wt. 22 oz. **$21.00**

STUBAI FOUR POINT INSTEP CRAMPONS. Recommended for limited use where short stretches of ice must be crossed. Adjustable width. Straps included.
MC204 ..... wt. 11 oz. ..... **$ 6.00**

CRAMPON SPIKE PROTECTOR. Unit-molded rubber will stretch to cover points of various sized crampons.
MC105 ..... wt. 2½ oz. ..... **$ 2.50**

LONGTHONG CRAMPON STRAPS. ½" nylon straps with quick-release buckle. 70" long.
MC101 ..... wt. 3 oz. ..... **pr. $ 3.00**

GRIVEL-TYPE CRAMPON STRAPS. ½" nylon webbing. Four pieces, each 41" long.
MC102 ..... wt. 4½ oz. ..... **$ 5.50**

BECK CRAMPON STRAPS. (Professional Model) Tough neoprene/nylon straps will not absorb water or collect ice and will not stiffen. They grip the boot tightly and will not stretch. Four straps, easily removed for use with other crampons.
MC103 ..... wt. 8 oz. ..... **$ 6.75**

CHOUINARD CRAMPON STRAPS. Four two-piece neoprene straps. Permanently attached to crampon with rivets.
MC104 ..... wt. 7 oz. ..... **$ 6.50**

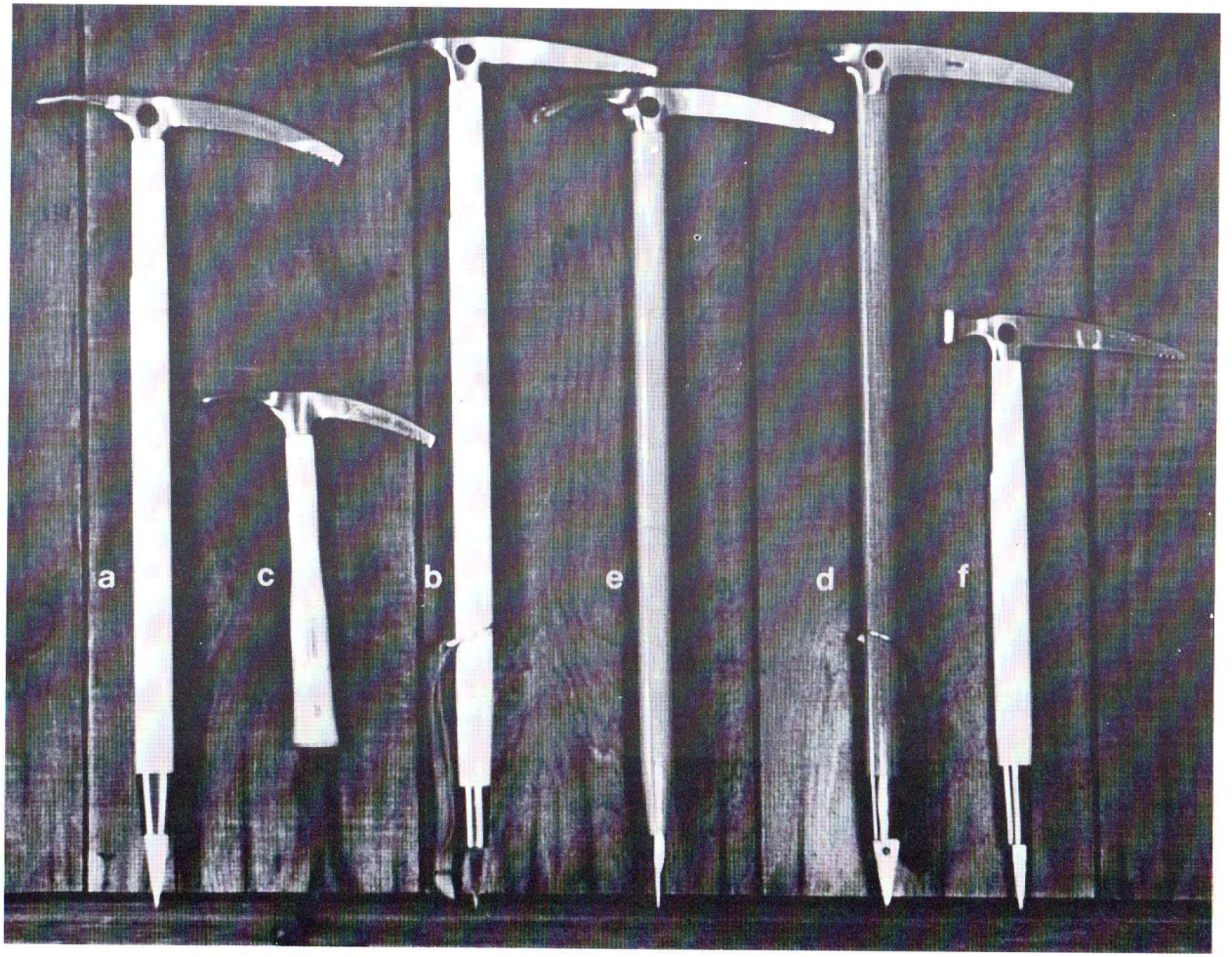
SAFETY GLASSES. An ideal glass for skiers and climbers. Tough plastic frames with perforated side shields. Green lenses are mounted to prevent glass being driven toward eyes.
ME102 ..... wt. 2 oz. ..... **$ 5.75**

CHOUINARD HIGH ALTITUDE GLASSES. Sturdy wire frame with a dark brown lens for greater filtering of high altitude rays. Leather side shields. Rigid carrying case included.
ME105 ..... wt. 2 oz. ..... **$ 9.50**

RUBBER COVER FOR ICE AXE HEAD. Molded in one piece. Stretches to fit axe head.
MA221 ..... wt. 1½ oz. ..... **$ 1.60**

ICE AXE RUBBER TIP PROTECTOR. Hard rubber tip, serrated at bottom. Tapered hole for ice axe tip.
MA222 ..... wt. ¾ oz. ..... **$ .50**

ICE AXE REPLACEMENT GLIDE RING AND STRAP. 1" nylon web strap with aluminum glide ring.
MA225 ..... wt. ½ oz. ..... **$ 1.50**



a CHOUINARD ICE AXE. Forged of nickel-steel. Straight adze. Pick has exaggerated droop with deep notches near tip. Carabiner hole. Laminated bamboo handle.

55 cm—For use on steep ice when not much snow climbing is expected.
MA206 ..... wt. 21 oz. **$33.50**

70 cm—For all serious ice and snow climbs.
MA207 ..... wt. 25 oz. **$33.50**

80 cm—For those who prefer a longer axe.
MA208 ..... wt. 29 oz. **$33.50**

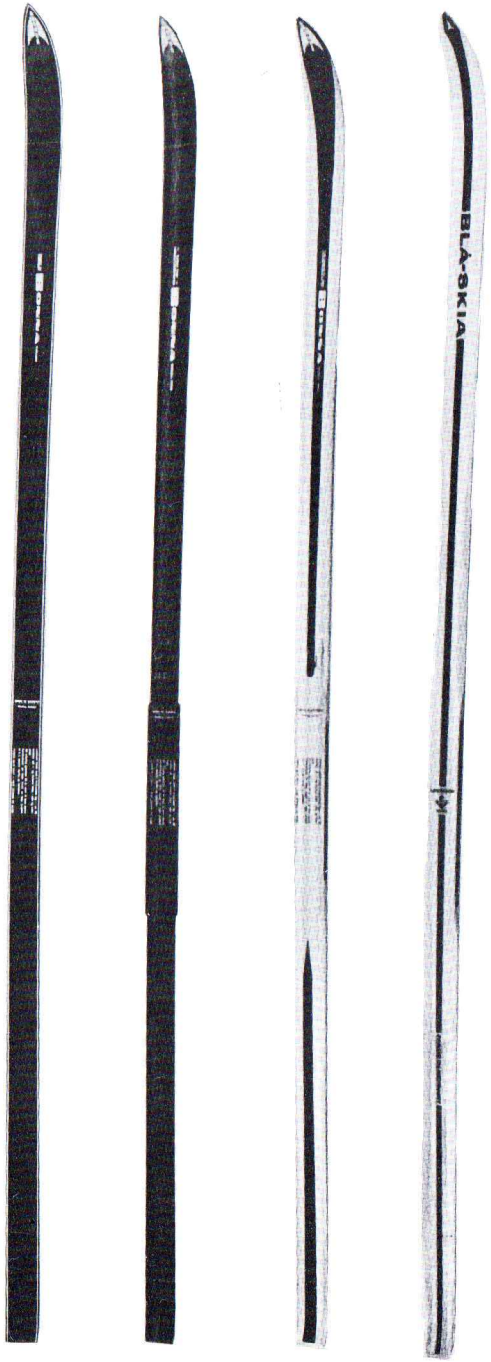
b NANGA PARBAT ICE AXE. Lightweight. Thin bladed pick with deeply serrated tip grips well in ice. Short adze provides greater leverage for cutting ice. Carabiner hole. Ash handle. Glide ring with strap. Lengths: 75 cm to 95 cm.
MA202 ..... ave. wt. 28 oz. **$24.00**

c CHOUINARD CLIMAXE. Similar to Chouinard Alpine Hammer, but with an adze for cutting pigeon hole steps in extremely steep ice. Less cumbersome than an ice axe on big mixed climbs.
MA203 ..... wt. 18 oz. **$23.00**

d GRIVEL ICE AXE. Laminated handle offers exceptional strength. Superbly forged head. Carabiner hole and uniquely perforated spike. Concave blade. Glide ring with strap. Lengths: 70 cm to 95 cm.
MA205 ..... ave. wt. 30 oz. **$32.00**

e INTERALP ICE AXE. Axe head forged of nickel-chromoly steel. Curved adze. Pick is serrated near tip. Carabiner hole. Aluminum alloy shaft is coated to minimize heat loss while handling. Color of shaft: orange. Lengths: 70 cm to 90 cm.
MA204 ..... ave. wt. 28 oz. **$30.00**

f SIMOND ICE HAMMER. Useful on mixed rock and ice climbs. Wooden handle. Serrated pick. Carabiner hole. Length: 55 cm.
MA201 ..... wt. 25 oz. **$32.00**

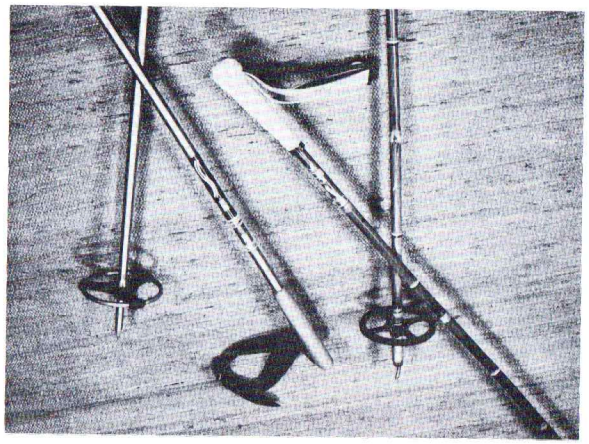


BONNA MOUNTAIN SKI. A wide 60 mm ski for mountaineering use. Laminated hickory with a hickory sole and metal interlocking edges. Excellent for climbing steep icy slopes and for descending under alpine conditions.
K102 ..... ave. wt./pr. 6.8 lbs. **$55.00**

BONNA 2400 GENERAL TOURING SKI. An excellent general touring ski for use in rugged territory, strong enough for deep snow yet light in weight. Made of laminated hickory with lignostone edges. Width: 58 mm, length: 180 to 220 cm. Recommended binding: Tempo.
K103 ..... ave. wt./pr. 5.9 lbs. **$42.00**

BONNA 1800. A general cross country ski with rounded profile for use in moderate terrain and on trails. Not recommended for breaking trail in crust or deep snow. Five-layer construction with hardwoods surrounding softwood core. Balsa channels at center of core. Hickory sole with lignostone edges. Width: 49 mm. Sizes: 180 to 220 cm.
K104 ..... ave. wt./pr. 4.8 lbs. **$42.00**

LANGRENN BLA*-SKI. A very light cross country racing ski designed for use in meadows and on tracks. This ski has all of the qualities of the best racing skis. Five-layer construction of birch and balsa. Full hickory sole and lignostone edges. Width: 46 mm. Sizes: 190 to 215 cm.
K105 ..... ave. wt./pr. 3.8 lbs. **$45.00**

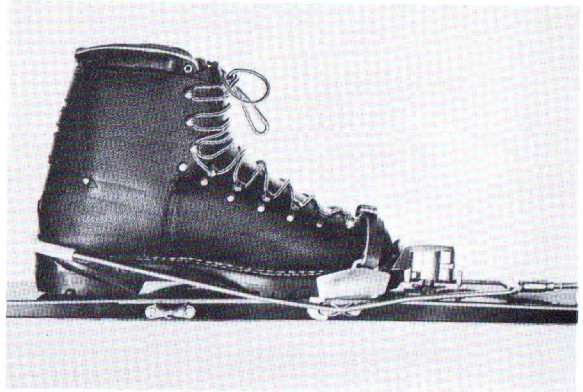


JARVINEN OLYMPIA POLES. An excellent bamboo cross-country pole, strong and springy. Curved tip. 4" diameter baskets, leather grips and straps. Lengths: 130 to 160 cm.
K110 ..... ave. wt./pr. 18 oz. ..... **$ 8.00**

SCOTT ALUMINUM TOURING POLES. Strong and light. Reputed to be the best American touring pole available. Shaft is aircraft aluminum. Plastic grips, leather straps. 4¼" diameter baskets. Lengths: 44" to 58".
K111 ..... ave. wt./pr. 1 lb. **$20.00**

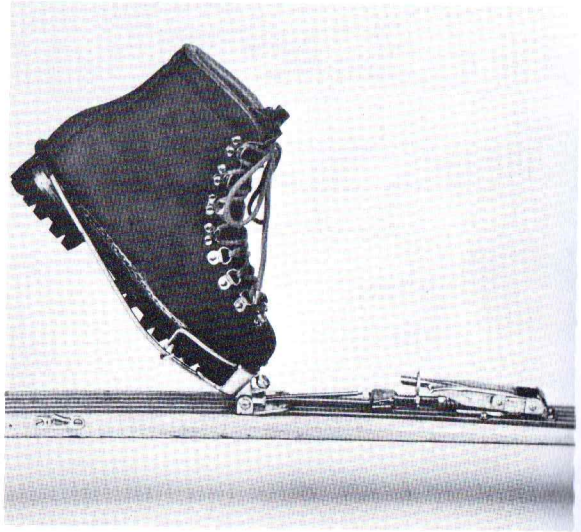
SKI TOURING BASKETS. Large diameter baskets for positive placement in unpacked snow.
K115 ..... wt. 4 oz./pr. ..... **$ 2.00**

Note: Skis and poles are oversize for Parcel Post and will be shipped via UPS.



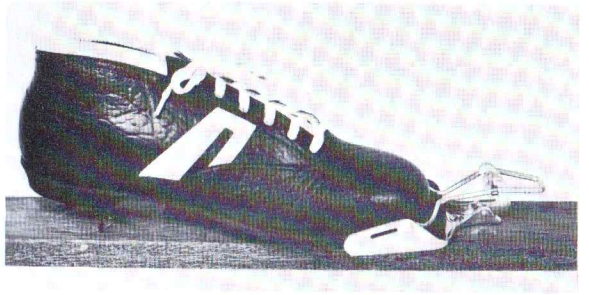
MARKER STECKBACKEN TOURING ATTACHMENT. Snaps on and off with ease. A quick adapter for converting downhill skis for touring. Fully adjustable; fits any boot. Use only in combination with Marker toe and a front throw cable.
K195 ..... wt. 10 oz. ..... **$ 7.25**

MARKER TOURING PLATE ATTACHMENT. A toe plate for converting downhill skis for touring. The plate must be bent for the individual skis and boots. Snaps on and off. Complete with cable guides.
K205 ..... wt. 12 oz. ..... **$ 3.25**

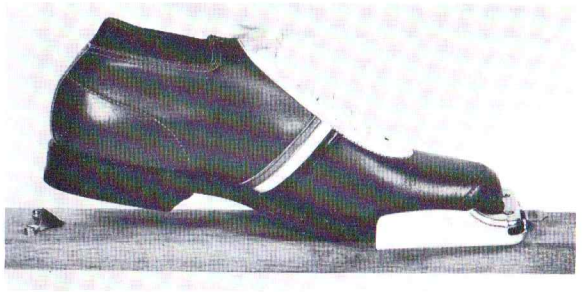


SILVRETTA BINDING. A heavy-duty touring binding. Excellent for ski mountaineering. Easily converts for downhill skiing with double cable hooks. Pivots forward to a 90-degree maximum angle. The binding is designed to allow use of mountaineering boots on skis. Ideal for mountaineering and heavy touring skis.
K204 ..... wt. 25 oz. **$21.00**

TEMPO TOURING BINDING. A simple and sturdy Norwegian binding. For use on regular cross-country and general touring skis. Fits all skis 55 mm and up. Two sizes: women's fits up to size 7½, men's up to size 13.
K201 ..... wt. 25 oz. ..... **$ 8.50**

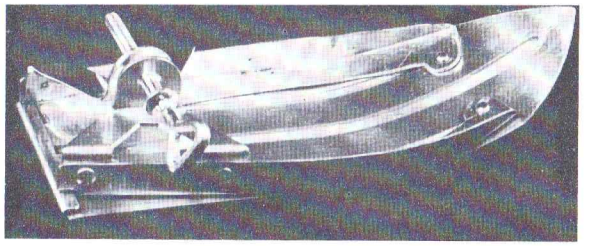


TROLL BINDINGS. Norse-made standard three-pin binding with very strong front clip. Used only with light touring or racing shoes. Widths: narrow and wide.
K203 ..... wt. 7 oz. ..... **$ 7.00**



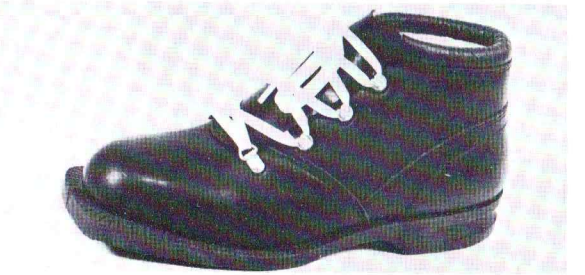
EIE BINDING. A single step-in-and-lock binding combined with a heel stabilizer to improve lateral stability. The binding is good for use on cross-country and light touring skis only. May be used only in combination with light touring **Bass** boot. Standard for men; junior for women.
K207 ..... wt. 7 oz. ..... **$ 8.00**

HARSCHEISEN. Useful on the more difficult ski-mountaineering ascents for conditions of extreme windpack and ice.
K302 ..... wt. 5 oz. ..... **$ 4.50**



ALUMINUM SKI TIP. A lightweight, readily attached tip for use in emergencies when ski is broken.
K101 ..... wt. 6 oz. ..... **$ 3.00**

MINARET SKI MOUNTAINEERING BOOT. An imported combination boot that is supple and comfortable for touring yet readily serves for downhill skiing. Made of pebble-grained black leather with shallow-tread Vibram lug soles for ski-climbing. Inner speed-lacing. Hinged heel allows forward flexibility. For men and women. Sizes 6 to 14; widths medium and wide.
B202 ..... ave. wt. 5 lbs. **$38.00**



ALFA TOURING BOOT. A light and supple boot designed for use with heavier skis. Rubber molded sole with leather uppers. Double tongue and lace construction. Pre-drilled for standard three-pin bindings and heel grooved for cable bindings. Sizes 6 to 13; width medium.
B204 ..... ave. wt./pr. 2 lbs. **$30.00**

ALFA X-C BOOT. A lightweight low-cut boot for use with light skis. Molded rubber soles, leather uppers, padded vinyl tongue. Pre-drilled for standard three-pin bindings and notched heel for downhill skiing. Excellent for general use. Sizes 6 to 13; width medium.
B203 ..... ave. wt./pr. 2 lbs. **$30.00**

LAKE PLACID X-C RACING SHOE. Light and flexible. Black leather uppers with padded top. Leather sole and soft rubber heel. Fits cross-country racing bindings. Sizes 7 to 11½, width medium.
B207 ..... ave. wt./pr. 2 lbs. **$24.00**

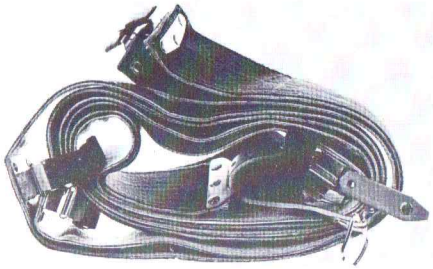
BASS LIGHT TOURING SHOE. Designed for use with Eie or Troll bindings. Burgundy leather uppers with red, white and black trim. Rubber composition sole. Elastic leather snow collar. Comes complete with toe plate and heel notched for Eie bindings. Sizes 5 to 13.
B205 ..... ave. wt./pr. 2.5 lbs. **$28.00**

CHOICES OF EQUIPMENT

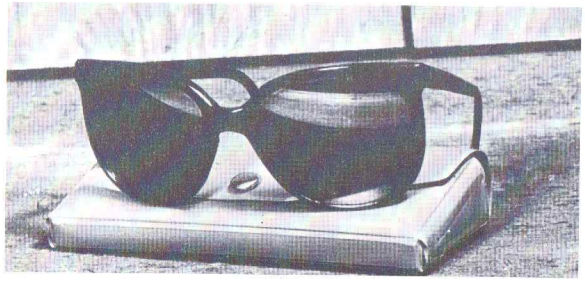
FOR SKI MOUNTAINEERING:
Skis: A wide 60 mm heavy ski with metal edges, i.e. Head Standards, Bonna Mountain Ski.
Bindings: A binding providing strong heel attachment, possibly with safety release, i.e. Silvretta, Steckbacken, Marker Touring Plate.
Boots: A heavy boot with lateral support, i.e. Minaret.

FOR SKI TOURING:
Skis: A 55-58 mm width ski with lignostone edges, i.e. Bonna 2400
Bindings: A binding with a cable-type attachment, i.e. Tempo, Silvretta.
Boots: A high boot that is light, with a flexible sole, i.e. Alfa Touring Boot.

FOR CROSS COUNTRY:
Skis: A 52 mm or narrower ski with lignostone edges, i.e. Bonna 1800, Bla*-Ski.
Bindings: A toe-pin-type binding, i.e. Troll, Eie.
Boots: A light touring or racing boot, i.e. Alfa X-C boot, Bass Touring Shoe, Lake Placid X-C Racing Shoe.



VINERSA CLIMBERS. Quality heavy plush with canvas backing. Clip-on strap allows skin to remain tight and straight on ski, eliminates strap wear over edge of ski; avoids putting holes in ski. Can be put on and taken off with ease. State ski length when ordering.
K303 ..... ave. wt. 23 oz./pr. **$22.00**

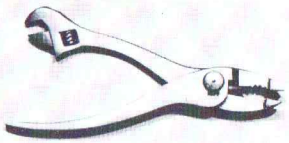


VAURNET SUNGLASSES. Designed for use in both flat and bright light conditions at all altitudes. Tempered and treated with a cadmium coating to screen infra red and ultra violet rays. Anti-fog stick included.
ME103 ..... wt. 2 oz. **$18.00**

BONN SOLE PROTECTORS. For use with X-C racing bindings only.
K300 ..... **set of 8 $ .75**

POP-UPS. Prevent heel from freezing to ski.
K301 ..... wt. 2 oz. ..... **pr. $ .85**

GREI HEEL PLATE. Metal and rubber. Helps prevent side slip.
K304 ..... wt. 2 oz. ..... **pr. $ 1.00**



COMBINATION TOOL. 4-inch adjustable wrench, slip joint wire cutting plier and screwdriver, combined. Chrome plated.
J600 ..... wt. 5 oz. ..... **$ 4.25**

CARE AND WAXING OF CROSS COUNTRY SKIS

PREPARATION

The factory finish on new cross country and touring skis is not suitable as a base for waxing. The skis should be scraped and sanded lightly to remove the finish and then Grundvalla or pine tar should be applied. To apply the Grundvalla base, lay the skis on an elevated bench, bottoms up, in a position that will prevent sliding as the skis are being rubbed. Spread the Grundvalla thinly over the entire base, then pass a lighted torch over the base to burn the Grundvalla into the wood. (Be very conservative with the heat.) Heat until the Grundvalla boils, then wipe away the excess with a cloth. Be careful to avoid charring the skis while heating. A good base job should be smooth and just slightly tacky. If the Grundvalla is applied in a thick coat and not wiped, it will work its way up through the wax when it is applied.

WAXING

Always begin waxing with clean, dry skis. If you wax inside, be sure to allow skis to cool outside before use.

Begin waxing with the coldest wax you think will work. This will prevent the necessity of scraping off a warmer (soft) wax in order to apply a colder (hard) wax. It is a good idea to layer the wax moving from hard to soft. A waxing iron can be useful in warming the surface and smoothing the wax.

The idea behind waxing is to give you both kick and glide. It is easy to wax and obtain either kick or glide, but to obtain a balance it is necessary to choose a wax or combination of waxes which will allow the skis to run freely. This is a matter of experience, and all manufacturers make recommendations as to the conditions under which their waxes should be used.

To remove wax merely scrape it off with a scraper and a little heat from a torch. Some manufacturers sell a preparation to remove wax.

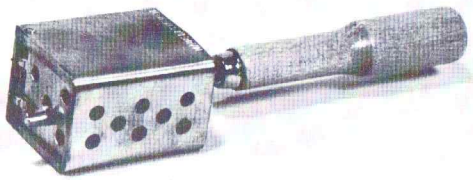
SWIX FOUNDATION TAR. To be heated into the ski with blow torch.
K133 ..... **$ .70**

SWIX ORANGE BASE WAX. A binder wax for hard and crust conditions.
K132 ..... **$ .65**

HARD WAXES.
K131/r—Red; new wet and settled snow ..... **$ .60**
K131/b—Blue; fine grain and fresh snow 26° to 32° F **$ .60**
K131/v—Violet; new snow app. 32° ..... **$ .60**
K131/g—Green; fresh and fine grain 14° to 32° ..... **$ .60**
K131/lg—Light Green; new snow 17° F. and below. .. **$ .60**
KLISTER WAXES.
K130/r—Red; coarse grain old snow ..... **$ .75**
K130/b—Blue; ice and crusty snow ..... **$ .75**
K130/v—Violet; coarse grain snow and crust 24° to 37° **$ .75**
K130/y—Yellow; new wet snow ..... **$ .65**

WAXING KIT. One each of red, blue, green and violet hard waxes and one each red and blue klister. Applicator and scraper included. Comes in zippered carrying case.
K134 ..... wt. 20 oz. ..... **$ 7.00**

WAXING CORK.
K137 ..... **$ .70**



HEATING IRON. Used for melting wax and warming skis.
K135 ..... wt. 6 oz. ..... **$ 4.50**

FUEL TABLETS FOR HEATING IRON.
K136 ..... **package of 10 $ .45**

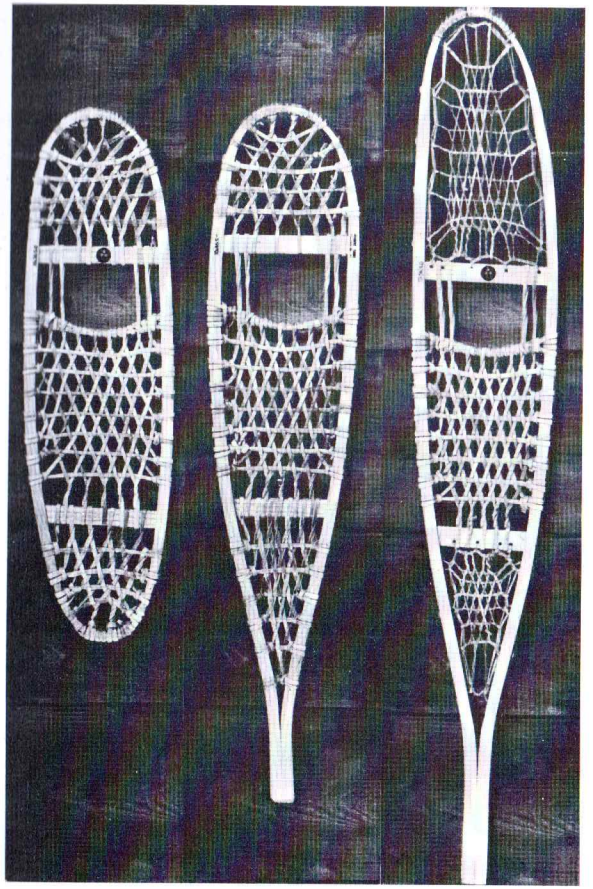
PRIMUS WAXING TORCH. Expendable butane cylinder and regulator valve with flame spreader tip.
K140 Complete ..... wt. 13 oz. **$11.00**
K141 Butane cylinder only wt. 10 oz. ..... **$ 1.45**

SCRAPER FOR WAX.
K138 ..... **$ 1.30**

AVALANCHE CORD. Red Perlon cord with directional marks at 2-meter intervals.
K500 ..... wt. 3 oz. ..... **$ 2.35**

ALUMINUM SNOW SHOVEL. An invaluable accessory for winter mountaineering. Detachable handle. Ice axe can double as handle. Shovel size 8" x 18". Handle 19".
M209 ..... wt. 24 oz. ..... **$ 4.00**

TUBBS SNOWSHOES. Selected ash and varnished rawhide construction preferred by most veteran snowshoers.



GREEN MOUNTAIN BEARPAW. 10" x 36". The most versatile design. Easy for the beginner and a favorite among professionals. Excellent maneuverability in brush or rough terrain. Supports up to 200 lbs.
K120 ..... wt. 4 lbs. 6 oz. **$36.00**

CROSS COUNTRY. 10" x 46". Same basic design as Green Mountain Bearpaw with the addition of a tail for reduced drag and increased stability. Supports up to 225 lbs.
K121 ..... wt. 5 lbs. 5 oz. **$36.00**

ALASKA TRAPPER. 10" x 56". A long narrow shoe with 10" tip at toe. Excellent trail shoe for deep, light powder. Supports up to 300 lbs.
K122 ..... wt. 5 lbs. 11 oz. **$39.00**

NOTE: K121, and K122 Snowshoes are oversize for Parcel Post and will be shipped via UPS.

LEATHER SNOWSHOE BINDINGS. Type H. A good binding for general use. Features full instep strap for extra support.
K125 ..... wt. 12 oz. ..... **$ 6.00**

BECK "STANDARD" SNOWSHOE BINDINGS. Traditional strap arrangement utilizing neoprene/nylon. Lasts for years and will not stretch.
K127 ..... wt. 10 oz. ..... **$ 7.50**

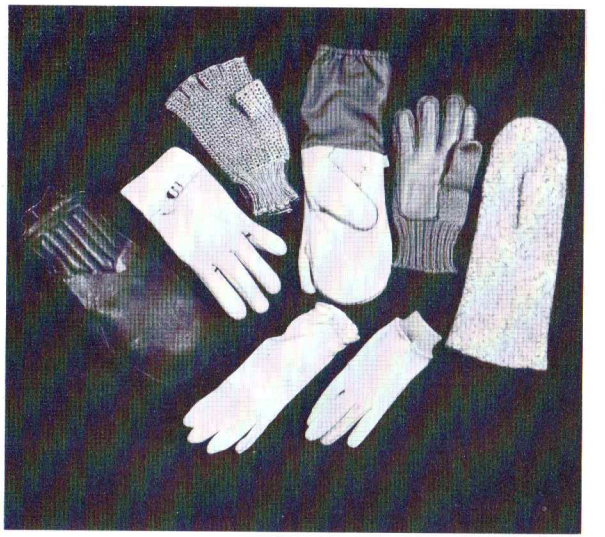
BECK "SPECIAL" SNOWSHOE BINDINGS. Tough, riveted neoprene/nylon grips boot. Does not ice up or stiffen and will not stretch. Special toe section prevents toe of boot from slipping forward on steep descents.
K126 ..... wt. 14 oz. **$11.00**

TRAILWISE 9" GAITERS. Snug elastic grip above and below the ankle. Made of waterproof nylon duck. Adjustable nylon underarch cord. Nylon zipper.
A116/9 ..... wt. 6½ oz./pr. ..... **$ 6.50**

TRAILWISE 16" GAITERS. Reaches above calf for extra protection in deep snow. Nylon duck, full-length nylon zipper, drawcord at top, adjustable nylon underarch cord. Hook clips front of gaiter to boot laces. Elastic at ankle and bottom of gaiter.

A116/16 ..... wt. 8 oz./pr. ..... **$ 9.00**

ENGLISH GAITERS. Blue cotton canvas gaiters with nylon zipper in back. Underarch strap. Top ties. 15" height.
A117 ..... wt. 11 oz. ..... **$ 9.00**



DOWN SKI MITTS. Deerskin mitten filled with goose down. Baffled nylon lining. Knit inner cuff keeps out snow and cold.
A505 ..... ave. wt. 7 oz. **$22.00**

ROPER'S GLOVES. A first quality glove of cream-colored tanned cowhide. Palm is free of stitching along finger and thumb bases. Strap adjustment on back. Sizes: 8 to 12.
A502 ..... ave. wt. 5 oz. ..... **$ 4.75**

MILLARMITTS. British fingerfree glove. Back and wrist are water-repellent 100% wool, silicone treated. Palm is long-wearing non-slip textured cotton. Frees fingers for climbing, fishing, etc. Color: tan with brown. Sizes: S, M, L.
A508 ..... ave. wt. 2¾ oz. ..... **$ 6.00**

G. I. GAUNTLET MITTS. Very good for cold weather mountaineering. Full leather palm and thumb; back and gauntlet of close-weave cotton twill. Removable wool liner, strap for tightening, and independent index finger. One size.
A501 ..... wt. 10 oz. ..... **$ 5.50**

KNIT GLOVES. Stretch knit of 80% acrylic and 20% nylon with deerskin palms. Good for ski touring. Color: camel. One size.
A503 ..... ave. wt. 2 oz. ..... **$ 4.00**

DACHSTEIN MITT. Knitted Austrian mitten of 100% wool. Pre-shrunk. Heavy weight. Color: grey. Sizes: S, M, L.
A504 ..... ave. wt. 6 oz. ..... **$ 4.50**

SILK GLOVE LINERS. Augments warmth of any glove or mitten. Very useful under cold conditions when mitts must be removed to operate cameras, tie crampon straps, etc. Color: natural. Sizes: S, M, L.
A511 ..... ave. wt. 1 oz. ..... **$ 3.75**

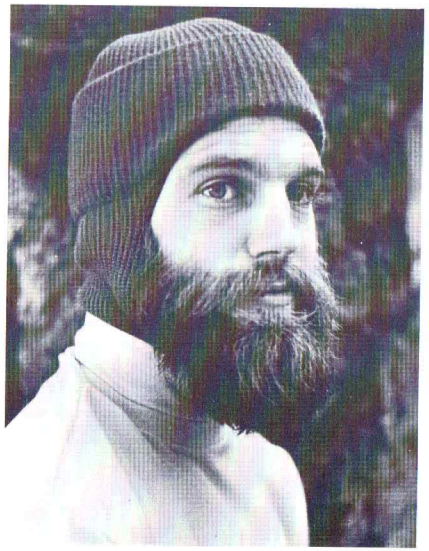
ALUMINIZED GLOVE LINERS. Made of aluminized Lurex threads. Heat-reflective and moisture absorbent. Men's and women's stretch sizes. Color: silver.
A510 ..... ave. wt. ½ oz. ..... **$ 4.00**

ROLLER-CRUSHER. Can be shaped to suit your mood. Takes crushing, smashing, folding, and stomping in its stride. Tends to become very distinctive in shape after long wear. Colors: black, red, green, grey, gold. Sizes: 6-7/8 to 7-¾.
A701 ..... ave. wt. 3 oz. ..... **$ 3.00**

HIKING HAT. Crew style in 100% cotton. Colors: white, tan and navy. Sizes: small, medium, large, x-large.
A702 ..... ave. wt. 2 oz. ..... **$ 3.25**

BASQUE BERET. Made in traditional style of 100% wool felt. Leather head band. Colors: black or green. Sizes: 6-7/8 to 7¾.
A729 ..... ave. wt. 4 oz. ..... **$ 3.00**

BANDANNAS. Traditional bandannas in assorted patterns. Colors: red or blue.
A730 ..... 20" wt. ½ oz. ...**$ .35**
A731 ..... 27" . wt. 1 oz. ...**$ .75**



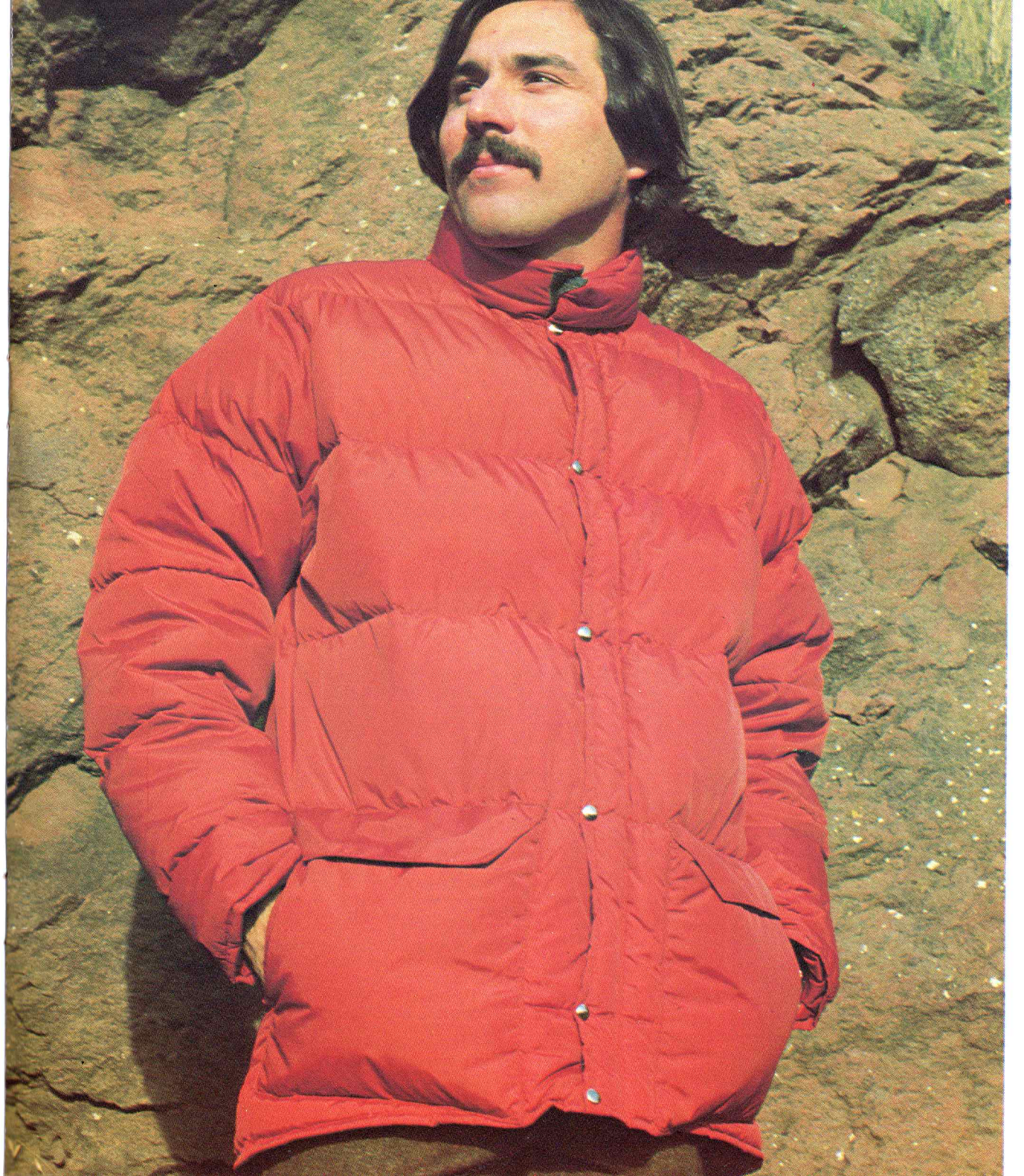
ORLON BALACLAVA. Looks good and gives maximum all-weather face protection. 100% Orlon double fabric knit. Colors: black, navy, red.
A710 ..... wt. 3 oz. ..... **$ 2.25**

WOOL BALACLAVA. The original British Balaclava helmet; an invaluable item for extremely cold weather. Can be used either as a cap or a full protective helmet. Made from long fiber, soft, fleecy, Shetland wool. Colors: navy, grey, tan.
A711 ..... wt. 4 oz. ..... **$ 3.00**

HEAD BANDS. 100% wool. Shaped pattern fits well over forehead and ears. Wide range of colors; please indicate alternate choices.
A713 ..... wt. 1 oz. ..... **$ 1.25**

NORSE NET UNDERSHIRT. Year 'round comfort is provided by this traditional Scandinavian underwear. Fishnet design creates many small insulating air spaces for winter warmth and summer cool. Open cell construction allows evaporation of perspiration, thereby preventing outer garments from sticking to skin. 50% cotton, 50% polyester. Color: navy. Short sleeves. Sizes: small, medium, large, x-large.
A651 ..... ave. wt. 7 oz. ..... **$ 4.50**

SKI SKINS. Dual layer underwear. 50% polyester, 50% cotton layer for soft comfort next to your skin. Outer layer is 70% polyester, 30% Australian wool for warmth. Men's: S, M, L, XL. Color: navy. Women's: S, M, L. Color: powder blue.
Men's Model:
A655/m .... Shirts ave. wt. 9 oz. .. **$ 6.50**
A656/m .... Longs ave. wt. 8 oz. .. **$ 6.50**
Women's Model:
A655/w .... Shirts ave. wt. 8 oz. .. **$ 6.00**
A656/w .... Longs ave. wt. 7 oz. .. **$ 6.00**



LOGAN

TRAILWISE LOGAN JACKET. Our extremely popular intermediate-weight, all-around down-filled jacket. Good looking and practical. Hip length; filled with 8¼ to 11 oz. of prime northern goose down. Pockets feature generous carrying space with Velcro fastened flap and insulated handwarmer slots. Optional down-filled hood available (see below). Snag free nylon zipper with down-filled draft flap secured with snaps. The Logan jacket has the warmth of several layers of wool, with less weight and bulk—easily fits into a corner of your pack until needed. Tough Supernyl shell with sewn-through seams. Sizes: small, medium, large, x-large; fits both men and women. Colors: brick, chianti, royal blue, emerald, bronze. Includes stuffsack.

A111 ..... ave. wt. 23 oz. **$41.50**

HOOD FOR LOGAN JACKET. A down-filled hood which can be drawn tight around face. Snaps to Logan collar. ¾ oz. down fill. (State size and color.)

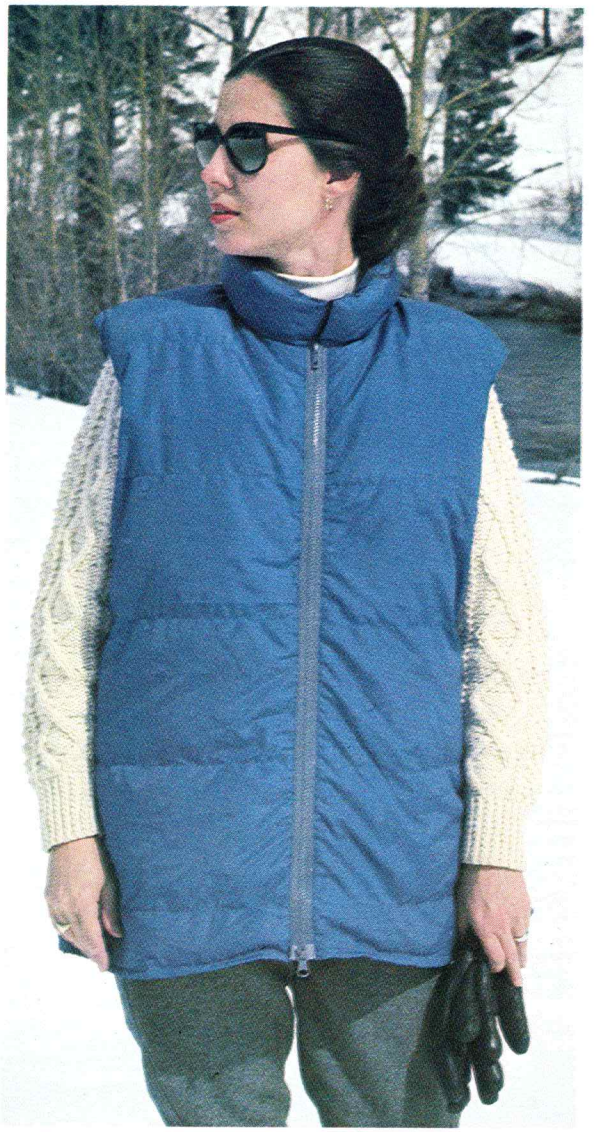
A111/h ..... ave. wt. 2½ oz. ..... **$ 6.00**

TRAILWISE EXPEDITION PARKA. Two separate down-filled jackets. May be worn individually or combined for greatest warmth. Inner jacket functions as a down sweater providing ideal warmth for most active situations. For the utmost protection against bitter cold at high altitudes or for comfort during periods of inactivity in cold weather, simply add the down-filled outer shell with hood for the warmth and protection of an expedition parka. **Inner Jacket:** Made of orange Tenaya nylon with 7 oz. fill of northern goose down. Total weight of inner jacket is only one pound. Hand-warmer pockets are down insulated. Snap closure on front of jacket, concealed knit cuffs, elastic at lower edge, and down collar with velcro fastener keep out cold. **Outer Jacket:** Made of soft and lightweight orange Tenaya nylon on the inside and snag-resistant blue Supernyl on the outside. 9 oz. fill. Total weight of outer jacket is 1½ lb. Closure is with double-slider nylon zipper. Snaps at wrist. Down-filled hood with draw cord. Drawcord at bottom of parka. Double pockets, i.e.: down insulated hand warmer pockets and cargo pockets with velcro closing flap. Combined weight of both jackets is only 2½ lbs. Color: blue and orange combination. Sizes: small, medium, large.

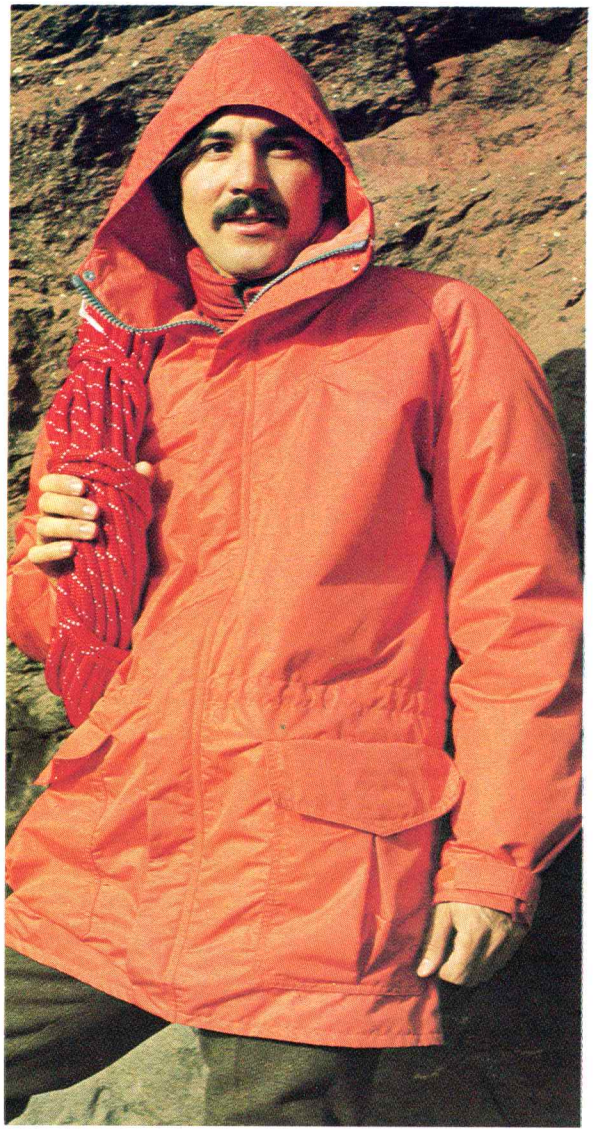
A108 ..... wt. 2½ lbs. **$88.00**

TRAILWISE DOWN PANTS. Designed for the mountaineer who needs great warmth with minimum weight and complete adaptibility. Quilted shell of Supernyl filled with northern goose down. Full length nylon zippers allow pants to be opened for ventilation and provide access to pockets. Zippers are separating so that pants may easily be put on or removed without taking off boots. Elastic waist with snap and velcro fastening. Color: blue. Sizes: small, medium, large.

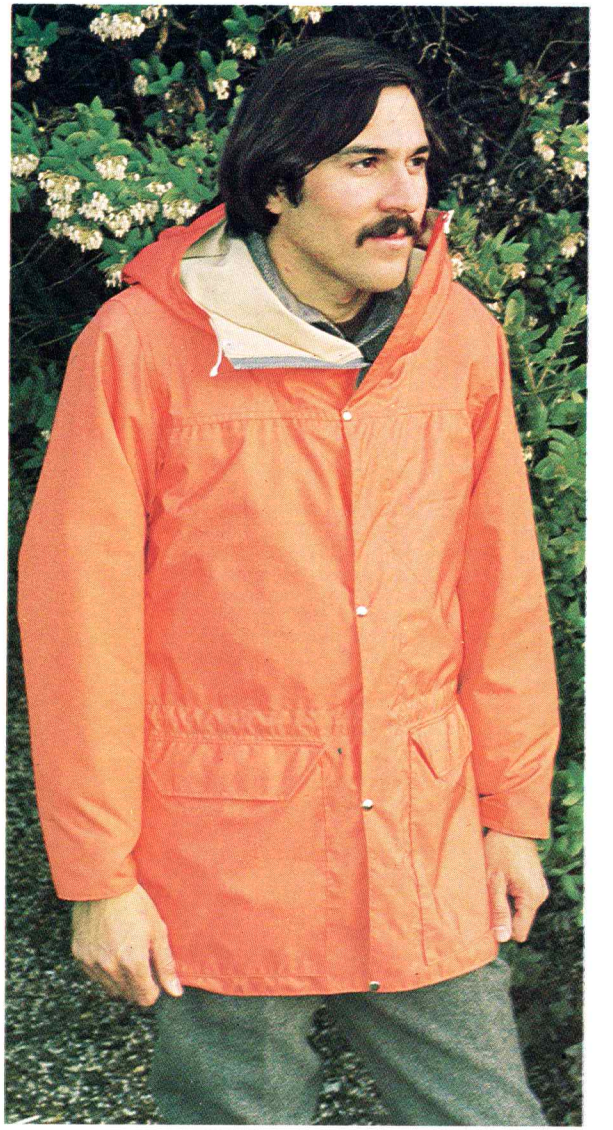
A110 ..... ave. wt. 18 oz. **$32.00**



TRAILWISE DOWN VEST. Provides great warmth with less overheating and more freedom of movement than a down jacket. Perfect over a shirt, under a parka, or in your sleeping bag. Supernyl shell with sewn-through seams is 29" long. 5 to 6¾ oz. down fill. 3" down-filled collar, nylon zipper. Sizes: small, medium, large. 4" x 6" stuffsack included. Color: blue.
A112 ..... ave. wt. 13 oz. **$23.00**



TRAILWISE MOUNTAIN PARKA. A true double-shell expedition garment; outer shell is of 60/40 Cloth, a mixture of cotton and nylon; inner shell is British Ventile cotton. These materials combine to provide optimum water and wind repellency with breathability and warmth. Full cut; may be worn comfortably over bulky down garments or sweaters. Raglan sleeves. Full-length heavy-duty 2-way nylon zipper sealed against drafts by snap-fastened flap. Inner waist drawcord with single adjusting slider, drawcord on hood. Two large bellows pockets with double flap and velcro closure, two inner breast pockets. Velcro closures at wrist. Colors: blue or orange. Sizes: medium, large, x-large.
A105 ..... ave. wt. 30 oz. **$57.00**



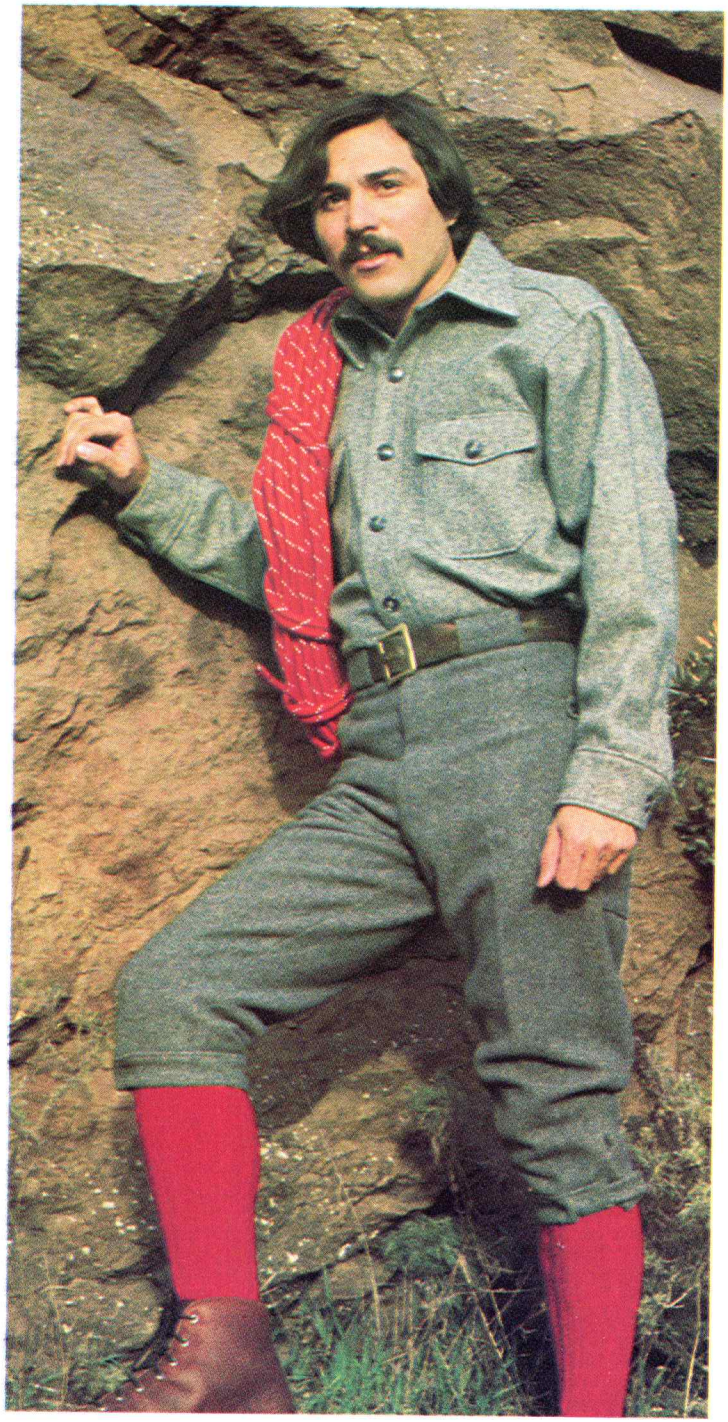
TRAILWISE TRAIL PARKA. Versatile double-shell parka. Outer shell is 60/40 Cloth, a mixture of cotton and nylon. Inner shell is a cotton and synthetic poplin. Double construction throughout. Cuts wind, is fully breathable, and unusually water repellent. Integral hood. Heavy-duty two-way nylon zipper is sealed against drafts with a snap-fastened weather flap. Drawcords at waist and hood. Two large patch pockets with velcro closed flaps. Hand warmer pockets. Inner breast pocket with zipper closure. Color: blue, green, orange . Sizes: small, medium, large.
A109 ..... ave. wt. 26 oz. **$32.00**

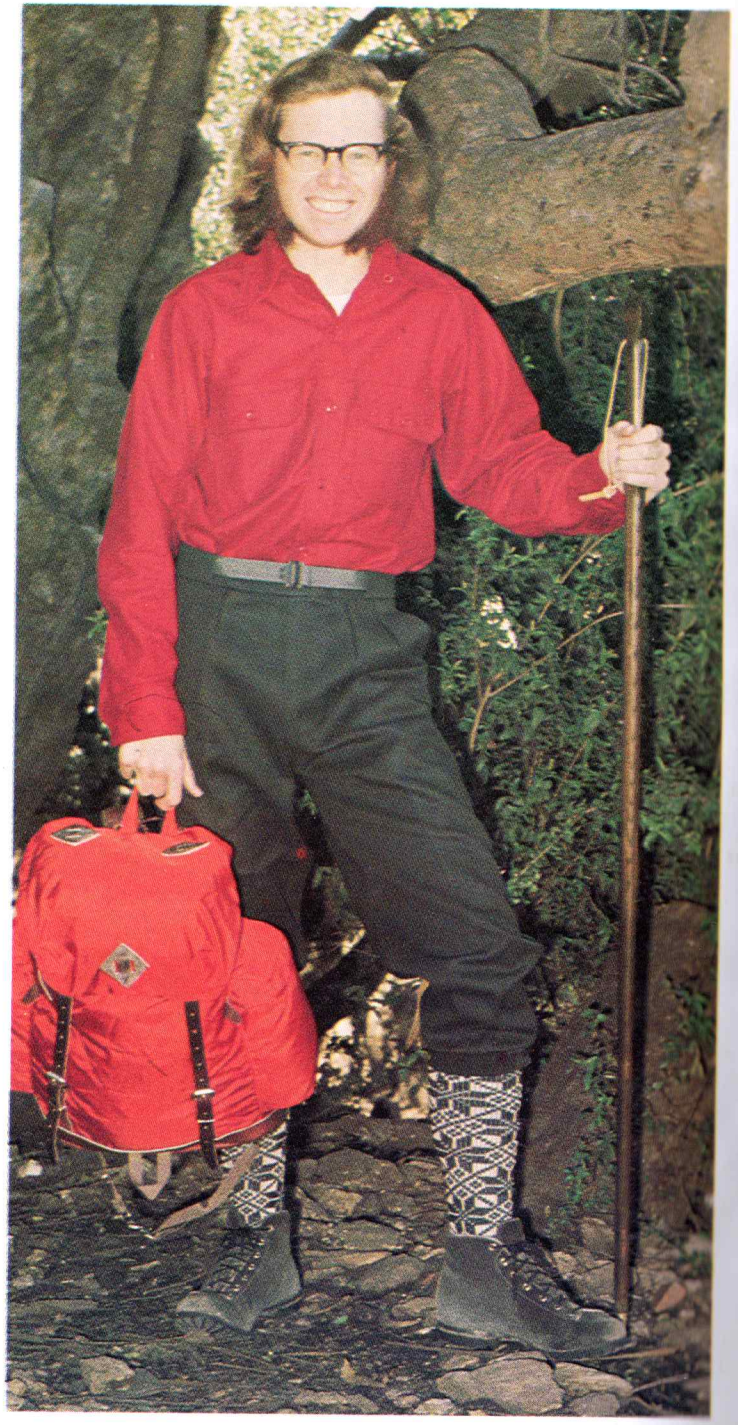
ALASKA SHIRT. Heavy-weight 100% wool shirt, permanently mothproofed. Warm, durable, and attractive, the Alaska is ideal for camping, hiking, and general sportswear. Long tails. Two breast pockets. A rugged shirt that will give years of service. Color: grey twill.
Men's model: neck sizes 14 to 18.
A309/m .. ave. wt. 26 oz. **$15.00**
Women's model: sizes 10 to 16.
A309/w .. ave. wt. 22 oz. **$14.00**

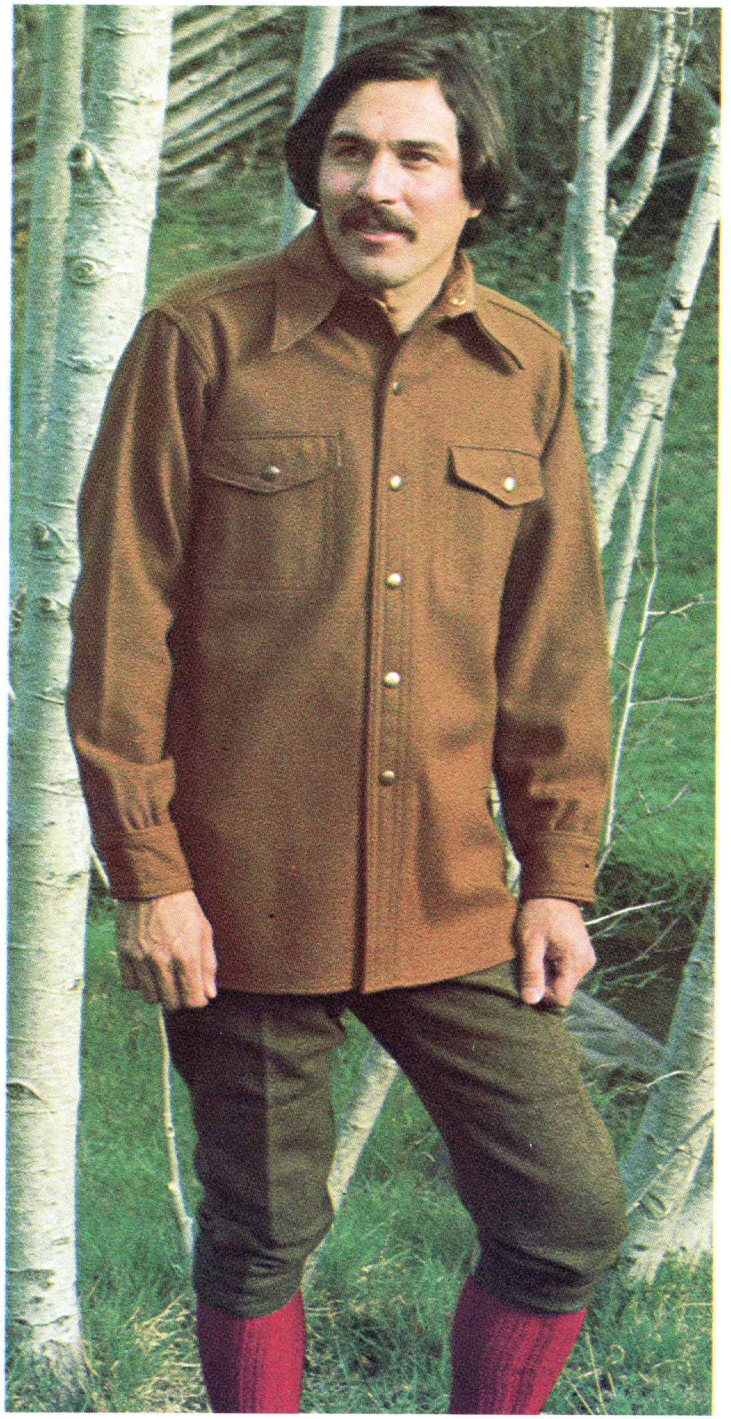
CLARKES' CRAGHOPPERS. 100% wool English climbing knicker of extra-heavy Yorks tweed. Double seat with two large pockets. Side pockets. Belt loops. Gusset insert at knee. Elasticized knee tab-fasteners with Velcro. Color: grey. Sizes: 28 to 38.
A405 .... ave. wt. 30 oz. **$30.00**

CHAMOIS SHIRT. Thick, double nap 100% cotton chamois cloth looks and feels like chamois leather. It is soft, durable, warm. Two large breast pockets with button flaps, long tails.
Men's model: Sizes 14 to 17. Colors: tan, red, green, navy.
A311/m .. ave. wt. 22 oz. **$11.00**
Women's model: Sizes 10 to 16. Colors: tan, red.
A311/w .. ave. wt. 18 oz. **$11.00**

WHIPCORD KNICKERS. Made in England of heavy-duty cotton whipcord, these climbing breeches feature a reinforced seat, belt loops, and elastic knee fasteners. Strong and abrasion-resistant without being too hot for summer rock climbing. Two side pockets, two deep rear pockets with velcro closure. Even sizes: 30 to 36. Color: dark grey.
A402 .... ave. wt. 26 oz. **$20.00**







PENEGAL SWEATER. Ski Hut import from Austria, this stylish sweater is of extra-heavy wool for warmth, durability and comfort. Crew neck. Colors: dark blue and burgundy. Sizes: men's and women's small, medium, large, x-large.
A325 .... ave. wt. 30 oz. **$32.00**

ENGLISH CLIMBING BREECHES. Made of Derby tweed (75% wool, 25% cotton), these fine imported English knickers are warm, water-repellent, and long-wearing. Square-cut seat reinforcement, knee patches. Wide velcro closures at cuffs. Sturdy belt loops. Roomy pockets with button flaps, hammer pocket. Color: grey tweed.
Men's model: Even sizes 28 to 38.
A410/m .. ave. wt. 36 oz. **$26.00**
Women's model: Sizes 10 to 16.
A410/w .. ave. wt. 28 oz. **$26.00**

CASCADE SHIRT. Rugged western styling accentuated by contrasting double-row saddle stitching. Features framed set-in pockets. Snap closures. 85% wool, 15% nylon in a Melton finish. Permanently moth-proofed. Short tails. Sizes: small, medium, large, x-large. Color: vicuna.
A312 .... ave. wt. 32 oz. **$19.50**

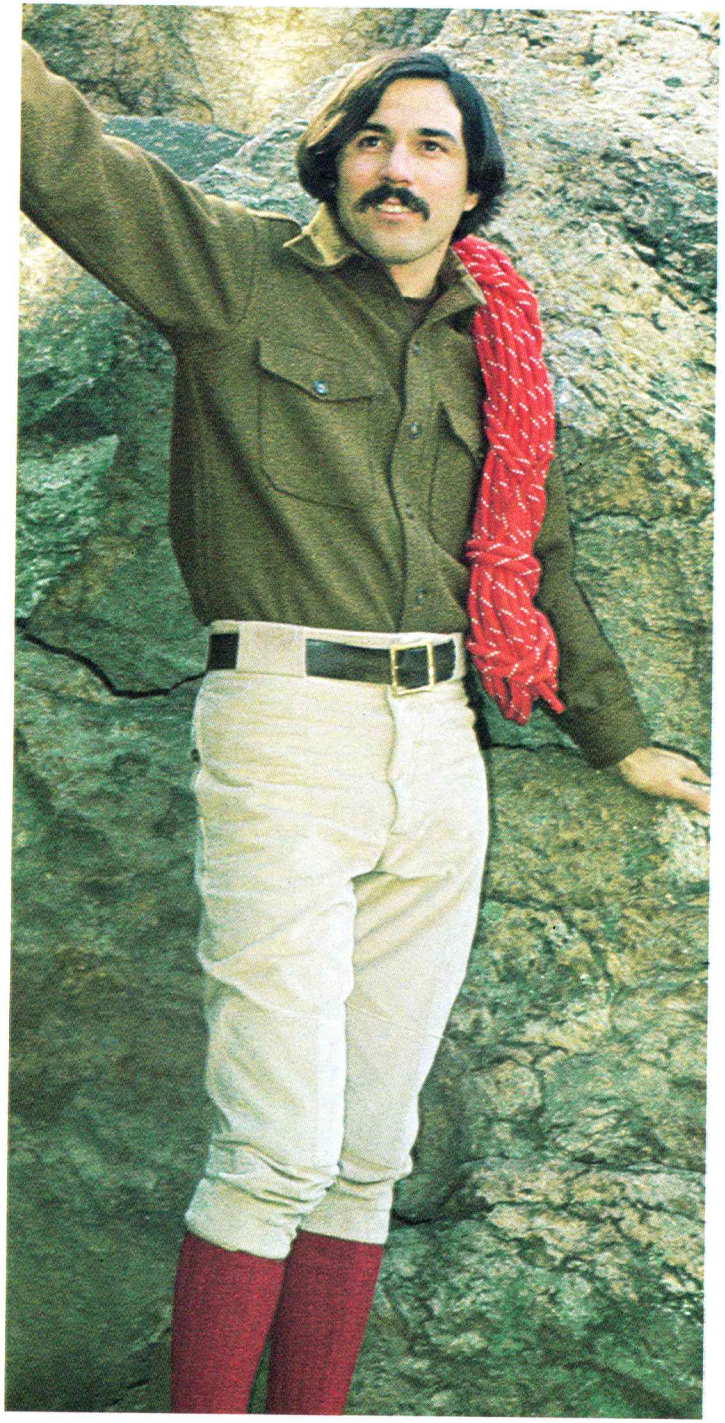
WOOLRICH CLIMBING KNICKERS. 100% wool knicker of sturdy 20 oz. Covert cloth. Ample room in knee and thigh. Double seat and knee. Hip and side pockets which button. Hammer pocket. Velcro closure at calf. Even sizes 30 to 38. Color: grey-green.
A403 .... ave. wt. 28 oz. **$22.50**

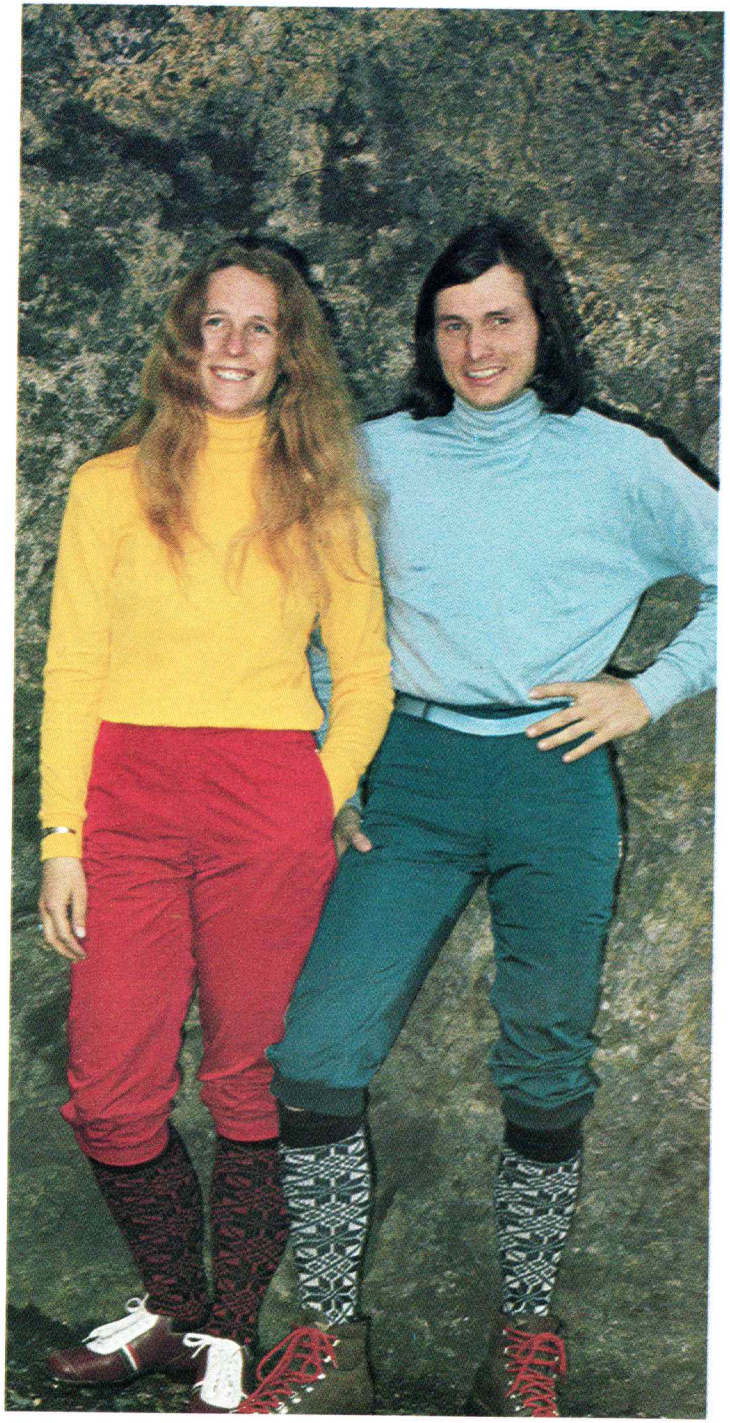
C. P. O. SHIRT. All-purpose outdoorsman's shirt of 85% reprocessed wool, 15% nylon, permanently mothproofed. Long tails, two pockets with button flaps. Sizes: small, medium, large, x-large. Colors: navy, brown.
A310 .... ave. wt. 27 oz. **$12.00**

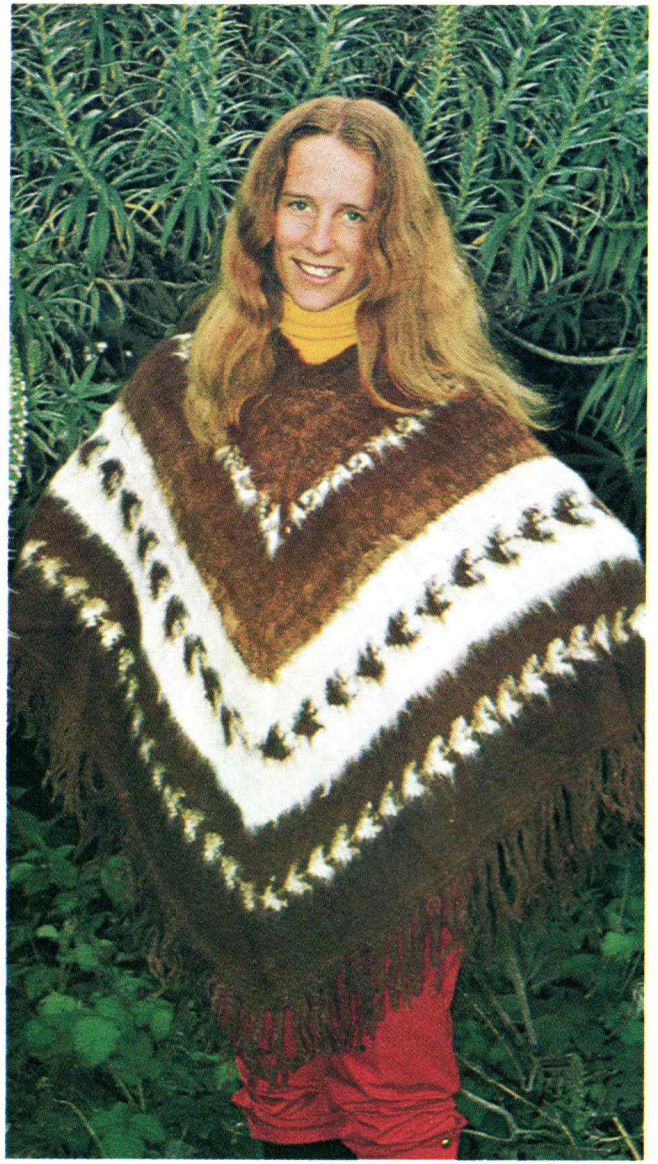
CORDUROY CLIMBING KNICKERS. Heavy-duty. 100% cotton. Double knee and seat. Side pockets with button tabs. Hip pocket with button flap. Hammer pocket. Velcro calf closures, tunnel belt loops. Color: tan.
Men's model: Even sizes 30 to 38.
A404/m .. ave. wt. 24 oz. **$20.00**
Women's model: Even sizes 10 to 16.
A404/w .. ave. wt. 22 oz. **$20.00**

TURTLENECK JERSEY. A versatile and attractive jersey of 100% cotton with elasticized collar and cuffs. Excellent for skiing, hiking, and casual wear. Colors: cherry, navy, brown, yellow, white, powder. Sizes: men's S, M, L, XL; ladies' S, M, L.
A305 .... ave. wt. 11 oz. **7.00**

60/40 KNICKERS. A lightweight knicker suitable for spring ski touring and hiking. Made of 60/40 cloth (60% cotton, 40% nylon), combining breathability with wind resistance and water repellency. Zippers on side pockets and fly.
Men's model: Sizes: 28 to 38. Colors: navy or tan.
A406/m .. ave. wt. 10 oz. **$22.50**
Women's model Sizes: 10 to 16. Colors: navy or red.
A406/w ... ave. wt. 9 oz. **$22.50**







BOLIVIAN ALPACA PONCHO. Handspun and hand-knit of the softest undyed virgin alpaca yarns, each of these ponchos is unique in pattern and color. Luxurious and amazingly warm, they make an ideal gift. One size fits all. Predominant natural colors: warm browns or soft greys.
A358 ..... wt. 30 oz. **$35.00**

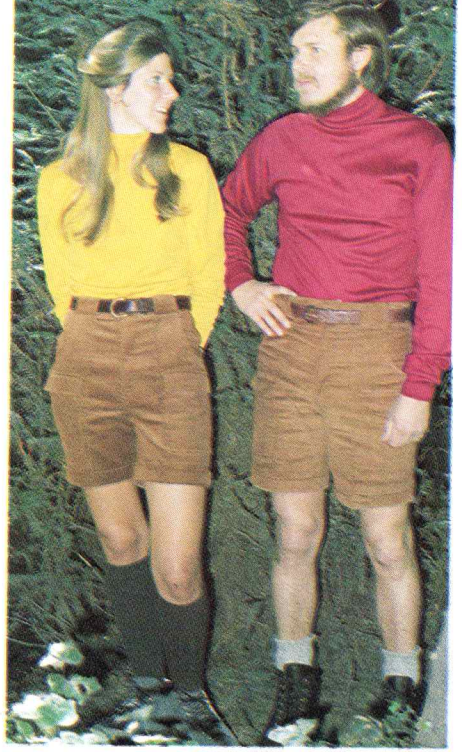
IRISH FISHERMAN'S SWEATERS. Our direct import from County Cork. These are the traditional handknit sweaters as worn by the rugged fishermen of the British Isles. 100% wool. Color: cream.

BANTRY BAY PULLOVER. Honeycomb and half-diamond pattern. Sizes for men and women 36 to 46.
A320 ..... ave. wt. 26 oz. **$47.00**

KILCREA TURTLENECK. Spoon and bobble stitches with center panel of diamond cable.
A321 ..... ave. wt. 27 oz. **$49.00**

GLANDORE CARDIGAN. Trellis, cable and blackberry stitches. Women's sizes 36, 38, 40.
A322 ..... ave. wt. 24 oz. **$48.00**

IRISH FISHERMAN'S CAP. Knitted wool watchcap to match the Fisherman's sweaters. One size.
A323 ..... wt. 4 oz. ..... **$ 5.50**



HIKING PANTS. Designed for rugged wear and comfort. Plenty of convenient pockets—four in front (outer ones with flaps). Two hip pockets with buttoned flaps on men's model only.

Men's Models:

Corduroy—flared leg. Color: bronze. Sizes: Even waist sizes 28 to 38. Inseams: 29, 31, 33 only.

A419 .... ave. wt. 21 oz. **$10.00**

Sateen—straight leg. Color: British tan. Sizes: Even waist sizes 28 to 38. Inseams: 29, 31, 33 only.

A420/m .. ave. wt. 19 oz. **$10.00**

Women's Models:

Corduroy—straight leg. Color: beige. Sizes: 10 to 16.

A421 .... ave. wt. 16 oz. **$10.00**

Sateen—straight leg. Color: British tan. Sizes: 10 to 16.

A420/w .. ave. wt. 16 oz. **$10.00**

HIKING SHORTS. Same stylish and handy pocket arrangement as the hiking pants in these Jamaica-length corduroy shorts. Color: bronze.

Men's model: Even waist sizes 28 to 38.

A425/m .. ave. wt. 14 oz. ..... **$ 8.00**

Women's model: Sizes 8 to 16.

A425/w .. ave. wt. 12 oz. ..... **$ 8.00**

SPORTIF SHORTS. Finely detailed hiking shorts of 50% Polyester/50% cotton Army cloth. Double layer seat. Four front pockets—two with button flaps. Two rear pockets. Inner change pocket. Large belt loops. Color: tan or navy.

Men's model: Even waist sizes 28 to 38.

A418/m .. ave. wt. 12 oz. **$11.00**

Women's model Sizes 10 to 14.

A418/w .. ave. wt. 10 oz. **$12.00**

SAXONY BUSH COAT. A warm, comfortable, and stylish 100% wool jacket for all-around wear. Four large inverted pleat pockets with button flaps. Shirt collar. Five-button front. Sizes: small, medium, large, x-large. Color: grey tweed or muted plaid with gold, green, and blue.

A350 .... ave. wt. 28 oz. **$23.50**

AUSTRIAN LEDERHOSEN. Genuine Austrian import. Sturdy, rough-finish grey suede leather. Two front pockets and one hip pocket. Men's have classic button front; ladies' have side zipper.

Children's: Sizes 1, 2, 4, 6, 8, 10.

A407/c ... ave. wt. 24 oz. **$11.50**

Youth's: Sizes 12, 14, 16.

A407/y ... ave. wt. 30 oz. **$16.50**

Women's: Sizes 10 to 16.

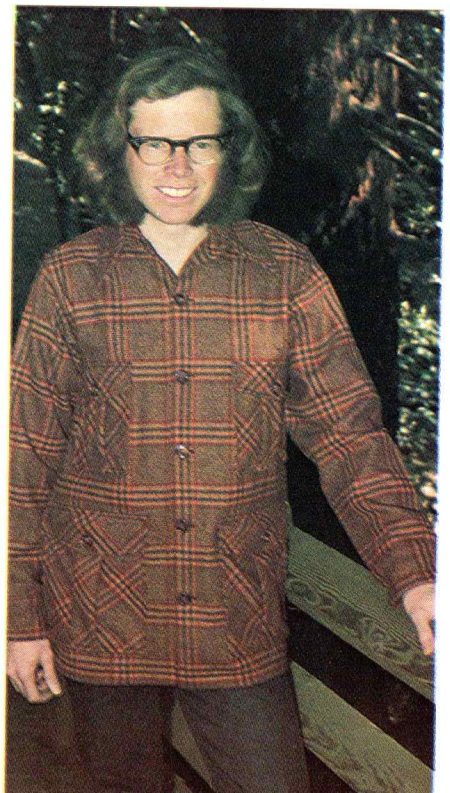
A407/w .. ave. wt. 32 oz. **$25.00**

Men's: Sizes 28 to 40.

A407/m ... ave. wt. 40 oz. **$24.00**

Lederhosen Suspenders—Specify small, medium or large in men's, women's, youth's, or children's.

A408 ..... ave. wt. 4 oz. ..... **$ 4.50**



WINDSHIRT. An extremely lightweight nylon pullover windbreaker. Convertible collar with nylon coil zipper. Single pocket. Ideal for skiing, bicycling, and backpacking. Colors: navy, red, green. Sizes: men's small, medium, large, x-large; women's small, medium, large.
A357 .... ave. wt. 4½ oz. ..... **$ 5.00**

TRAILWISE ANORAK. A lightweight pullover shell of coated nylon for protection from wind and rain. Nylon zipper at neck. Drawstring hood and hem. Velcro at cuffs. Sizes: small, medium, large. Colors: blue, green or orange.
A123 ..... ave. wt. 6 oz. **$11.50**

TRAILWISE RAIN CHAPS. Coated Nyltown provides protection from rain and wet brush with a minimum of bulk and weight. Adjustable nylon cords tie to belt loops. Sizes: small, medium, large. Color: brown.
A124 .... ave. wt. 5½ oz. ..... **$ 5.50**

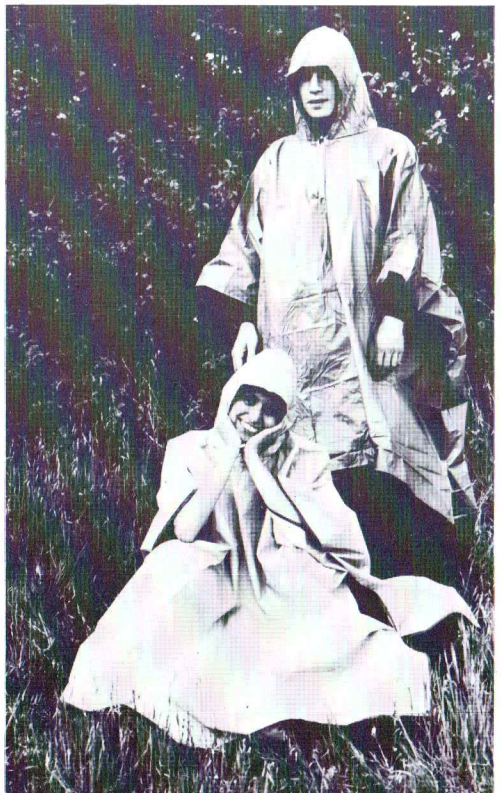
TRAILWISE CAGOULE. A lightweight knee-length parka made of waterproof coated nylon, cut large so that knees may be drawn up inside during bivouac. Large Kangaroo pocket with side slash openings. Drawcord with nylon slider at hood. Velcro at wrist, drawcord at lower edge. 4" x 10' case included. One size.
A120 ..... wt. 16 oz. **$21.50**

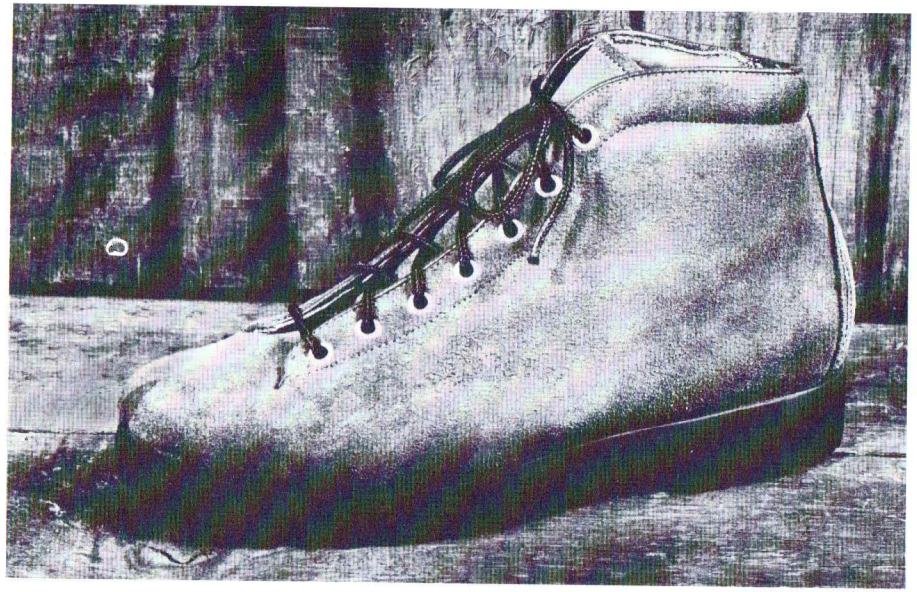
TRAILWISE NYLPORT PONCHOS. Urethane-coated nylon, completely waterproof, will not crack or peel. For those who want a quality lightweight poncho. Snaps are set along edges. With hood. Color: navy and green.
Standard: Measures 55" x 90".
A121 ..... wt. 16 oz. **$16.50**
Overpack: Measures 55" x 120". Extra long in back for wear over pack. May be shortened with snap fasteners for normal wear.
A122 ..... wt. 20 oz. **$20.00**

LARGE PLASTIC PONCHO. Waterproof vinyl, 54" x 96". Made longer in back for wearing over a pack. Zipper closure at neck. Snap fastener closures on sides. Hood with tie tapes.
A202 ..... wt. 24 oz. ..... **$ 3.00**

NYLON PONCHO. Waterproof rubberized nylon, 50" x 80". Snap fastener closures; drawcord hood. Green and yellow reversible.
A200 ..... wt. 23 oz. ..... **$ 6.00**

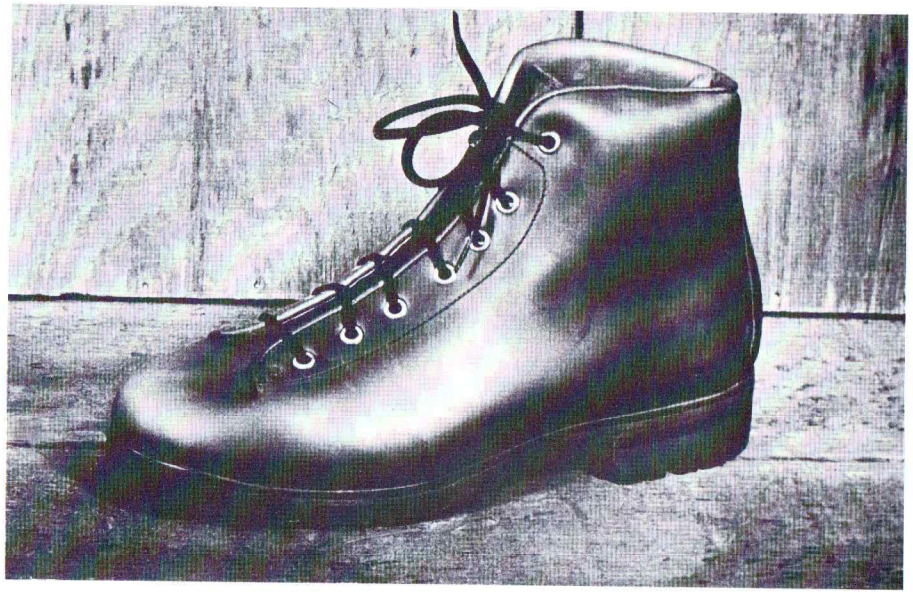
COLUMBIA RAINCOAT. Light, waterproof, full-length double slider metal zipper, drawstring hood concealed in collar. Rip-resistant K-Kote nylon will not run, shrink, crack, or peel. Color: navy. Sizes for men or women: small, medium, large.
A203 .... ave. wt. 10 oz. **$15.00**





MUIR TRAIL. By **Pivetta.** An excellent lightweight trail boot of grey abrasion-resistant suede. Fully lined in smooth calf; padded non-slip tongue and padded ankle section. Reinforced toe caps and heel counters. Steel shank. Non-skid Vibram lug soles. Doubles as an excellent climbing boot. Height 6". Sizes 4 to 14; widths AAA to D.
B101 ..... ave. wt. 3 lbs. **$31.50**

BEOFOR. By **Vasque.** A very lightweight boot for the ladies. Suede uppers, smooth leather inner lining. Padded ankles and scree collar. Bellows tongue with flap protector. Lacing hooks. Rubber lug welt sole. Height 5". Sizes 4 to 9; widths narrow and medium.
B306 ..... ave. wt. 2½ oz. **$21.00**



PIVETTA 5 Medium-weight hiking boot. Built on the same last and design as the Muir Trail, this boot features smooth-finish leather uppers and a leather midsole. Calf lined, padded non-slip tongue and padded ankle section. Superior Vibram unit sole and heel. Reinforced toe caps and heel counters. Steel shank. Height 6". Sizes 5 to 14; widths AAA to D.
B102 ..... ave. wt. 4 lbs. **$40.00**

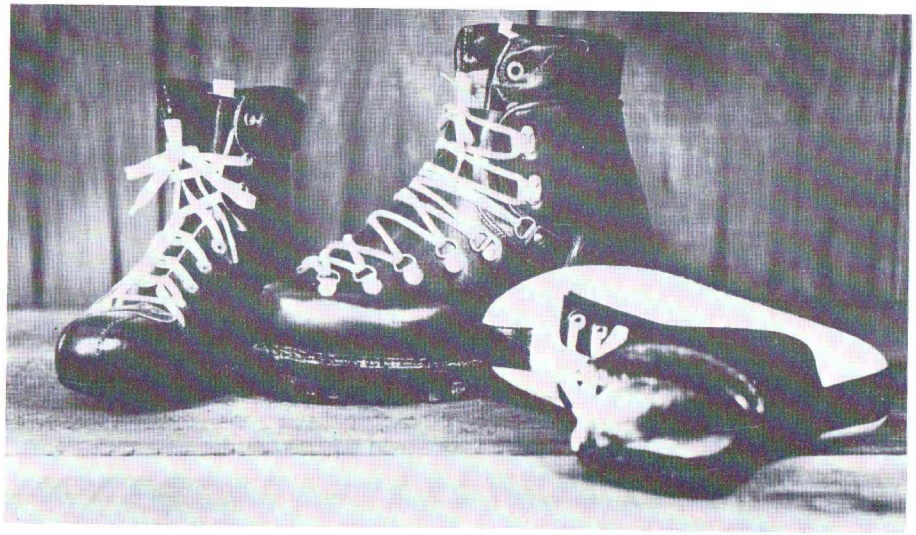
HIKER. By **Vasque.** An American-made trail boot. Roughout leather. Lined and padded throughout ankle section. Heavy leather heel cap. Padded tongue. Elasticized scree collar. Closely trimmed Vibram Montagne soles. Lacing rings and hooks. Sizes 7 to 12; widths medium and wide.
B305 ..... ave. wt. 4½ oz. **$35.50**

MOUFLON SHASTA. By **Galibier** A medium-weight, comparatively flexible boot with a two-piece black leather upper. Good for all-around hiking or light mountaineering. Especially suitable for beginning climbers. Makes a good woman's boot. Lug welt soles. Sizes 5 to 12; medium width.
B402 ..... ave. wt. 4½ lbs. **$38.00**

EIGER. By **Pivetta** Heavy-duty Italian mountaineering boot. Black leather upper, resistant to rock abrasion and water penetration. Padded throughout ankle section; fully lined in calfskin. Hard toe and heel counter. Vibram Montagna sole is cemented on, and reinforced by brass screws at toe and heel sections. Steel shank. Sole is trimmed to eliminate overhang. This boot has been proven on expeditions to the Andes, Himalayan, Alaskan and African ranges. Height 6½". Sizes 5 to 14; widths A to E.
B106 ..... ave. wt. 4¾ lbs. **$43.00**

MONTE ROSA. By **Pivetta.** Developed in Europe for climbing in the Alps. Roughout oil-tanned leather for abrasion resistance. Fully lined with chrome-tanned leather, backed with foam rubber around the ankle section, including tongue. Reverse seams. The Vibram Montagna sole has no overhang, assuring good balance on rock and technical ice. Lacing hooks. Steel shank. Height 5½" plus 1" snow and scree collar. Sizes 5 to 12; widths A to D.
B105 ..... ave. wt. 4½ lbs. **$45.00**

"RD" SUPER-GUIDE. By **Galibier.** A heavy-duty mountaineering boot with stiff sole. Tan rough-out uppers with "double-water-proof tanning." Used on many of the hardest climbs in the Alps and in North and South America. Upper is gusseted to keep out water and snow. Good for rock climbing. Lug welt soles. Sizes 6 to 13; medium width.
B403 ..... ave. wt. 5½ lbs. **$49.00**



HIVERNALE. By **Galibier.** A double boot with two sets of inner boots. The "arctic" inner is felt on the lower and leather on the upper exterior, fully lined with synthetic fur. The "alpine" inner has a black leather exterior and is lined with felt. Outer boot is smooth black leather with closely trimmed lug soles and is so lightweight that one can climb in it as well as in a single boot. Hinged heel. Lacing rings. For technical climbing in very cold weather. Sizes 5½ to 12; medium width.

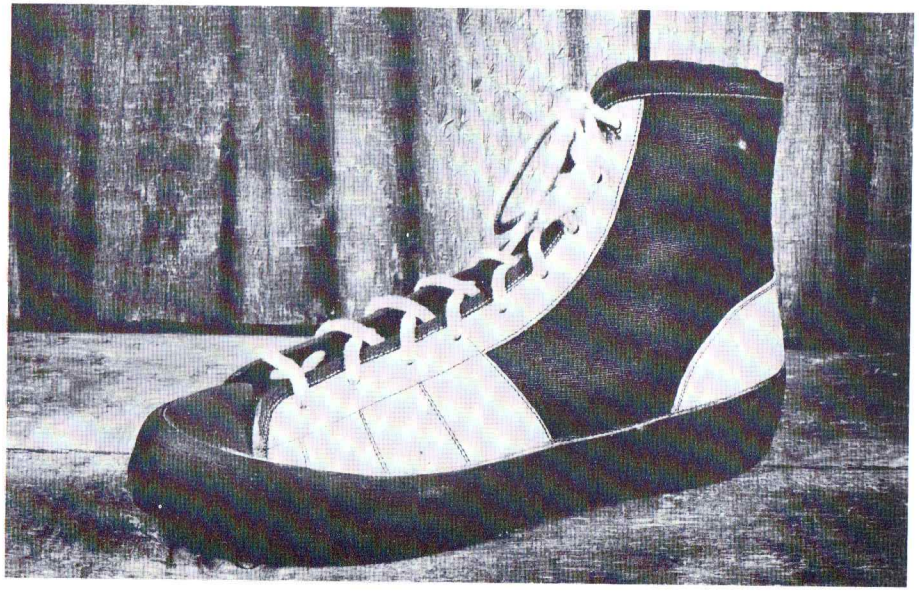
B401 ..... ave. wt. 6½ lbs. **$90.00**

SPIDER. By **Pivetta.** Designed for technical rockclimbing. Stiff Vibram sole for edging on tiny holds. Grey suede leather. Heel and toe are capped with an additional layer of leather. Sizes: 5 to 14. Widths AA to D. **Limited supply available.**

B100 ..... ave. wt. 2¾ lbs. **$20.00**

"RR" YOSEMITE. By **Galibier.** Designed by Royal Robbins and manufactured by Galibier as a heavy duty rockclimbing shoe. Not recommended for hiking. The Varappe has become the most popular and most versatile rockclimbing shoe in the United States. Rigid for edging and comfort in slings, yet sufficiently flexible to conform to sloping holds. Gripping device on lacing allows separate adjustment of lace tension for walking. Uppers are blue suede with a thickness of rubber over toe and heel counter; padded ankle; lug sole. Sizes 5 to 12; width medium.

B404 ..... ave. wt. 3¼ lbs. **$31.00**



PA VARAPPE. By **Galibier.** Designed by Pierre Allain. The original super bouldering shoe. Light and supple. Flat rubber sole. Red Canvas upper. Sizes 4 to 12; widths narrow and medium.

B405 ..... ave. wt. oz. **$21.50**

HOW TO ORDER BOOTS

Please follow these directions carefully. The information requested below is essential for the fitting of your boots.

1. Put on the socks you intend to wear. Stand up on a piece of paper, having the weight of your body equally distributed on both feet. Holding a pencil vertically, clearly define the outline of each foot.
2. State your usual dress shoe size. Give both length and width; for example 9 C.
3. Enclose the foot outline and your dress shoe size with your order.

NOTE: We guarantee a proper fit. Instructions for trial use of your boots will be sent with them. Please observe these instructions carefully as boots which have been worn out-of-doors will not be accepted for exchange or refund. If the fit is incorrect, send the boots back to us with the coupon provided on the instruction sheet. A new pair of boots will be sent back to you postpaid.

RESOLING SERVICE. We recommend that you engage your local shoe repairman to undertake resoling, as the savings in money and time are considerable.

Boots sent to us for resoling or repair must be clean before they will be accepted.

Price includes sole, rubber midsole and labor . . **$14.00**
Cost of shipping and handling (Parcel Post) . . . . **$ 1.50**
Note: Allow four weeks for two-way shipment and resoling service.

LEATHER LACES. Oil-tanned and made from heavy gauge leather. Length: 72".
B910 . . . . . wt. ¾ oz. . . . . **$ .60**

BRAIDED NYLON LACES. Textured; high tensile strength. Non-slip waxy finish. Colors: black, red, white.
B909/54 . . . . . 54" long . . . . . **per pair $ .50**
B909/72 . . . . . 72" long . . . . . **per pair $ .60**

SNO-SEAL. The original waterproofing for leather.
B902 . . . . . 8 oz. can . . . . . **$ .95**
B903 . . . . . 4 oz. can . . . . . **$ .60**
LEATHER SEAL. For waterproofing shoes, ski and hiking boots.
B905 . . . . . 8 oz. can . . . . . **$ 1.40**

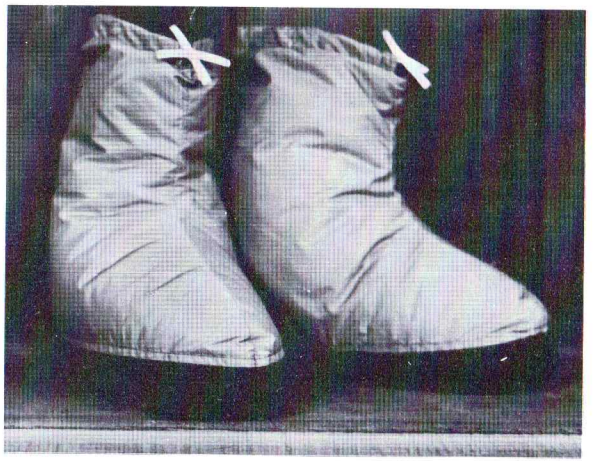
SNO-SHOO. Silicone waterproofing spray for shoes and boots. May also be used on suede.
B901 . . . . . 8 oz. aerosol can . . . . . **$ 1.50**

RUBBER LUG SOLES. Made of black compound rubber that will grip on almost any surface except glare ice. Used extensively by mountaineers throughout the world.

VIBRAM MONTAGNA SOLES AND HEELS. For hiking and mountaineering boots.
B010 . . . . . ave. wt. 1 lb./pr. . . . . **$ 4.50**

RUBBER MIDSOLES. Needed to obtain best bonding of lug soles.
B013 . . . . . ave. wt. 6 oz./pr. . . . . **$ 1.00**

MARWA SOLES. For kletterschuhes without raised heels.
B011 . . . . . ave. wt. ¾ lb./pr. . . . . **$ 3.25**



TRAILWISE DOWN BOOTEES. Wear inside tent, cabin, car or sleeping bag. Pure, fluffy goose down in differentially sewn shell provides the most efficient insulation known. Soles are ¼" Ensolite covered with heavy-duty urethane-coated nylon duck for ground insulation. Uppers are constructed with Supernyl outer shell and Tenaya inner shell. Inner sole is cotton for non-slip comfort. Hidden elastic band holds bootee snugly against heel. Drawstring at top. Height is 11". Sizes: S, M, L, X-L.
A115 . . . . . ave. wt. 8 oz. **$11.00**

NORWEGIAN BOOT SOCKS. An ideal all-around boot sock of 100% wool. These famous Ragg socks are high enough for 8" mountaineering boots. Color: grey. Sizes: 9-13.
A901 . . . . . ave. wt. 4½ oz. . . . . **$ 2.50**

EXTRA-HEAVY NORWEGIAN SOCKS. 10" ribbed top; nylon reinforced heel and toe. Extra thick wool for additional cushioning and warmth. Color: off-white. Sizes: 9-13.
A902 . . . . . ave. wt. 6¼ oz. . . . . **$ 3.75**

NORWEGIAN LONG BOOT SOCKS. Knee length Ragg socks made of 100% heavyweight wool. Highest quality. Color: grey. Sizes: 9-13.
A930 . . . . . ave. wt. 7 oz. . . . . **$ 3.75**

NORGE KNICKER SOCKS. Heavy weight stretch knicker socks of 60% wool/40% nylon. 25" length. Ribbed top. Color: camel or cranberry. Sizes: M (9-11), L (11-13).
A931 . . . . . ave. wt. 6 oz. . . . . **$ 4.00**

ROYLON KNICKER SOCKS. Soft, warm, and long-wearing. 55% wool, 45% Dralon. Wide rib knit. Elasticized knee. Colors: powder blue, medium grey, bright red, heather green. Sizes: 9-12.
A932 . . . . . ave. wt. 6 oz. . . . . **$ 5.00**

ROYLON PATTERNED KNICKER SOCKS. Scandinavian snowflake pattern in 55% wool, 45% acrylic. Elasticized knee. Colors: red on black, olive on black, blue on black. 9-12.
A933 . . . . . ave. wt. 5 oz. . . . . **$ 5.50**

NORSE THERMAL SOCKS. Thickly cushioned inner pile provides great comfort and excellent insulation. 75% wool, 25% nylon. Shrink resistant. An excellent all-around boot and casual sock. Colors: white or black. Stretch sizes: 9-11, 11-14.
A903 . . . . . ave. wt. 3 oz. . . . . **$ 3.00**

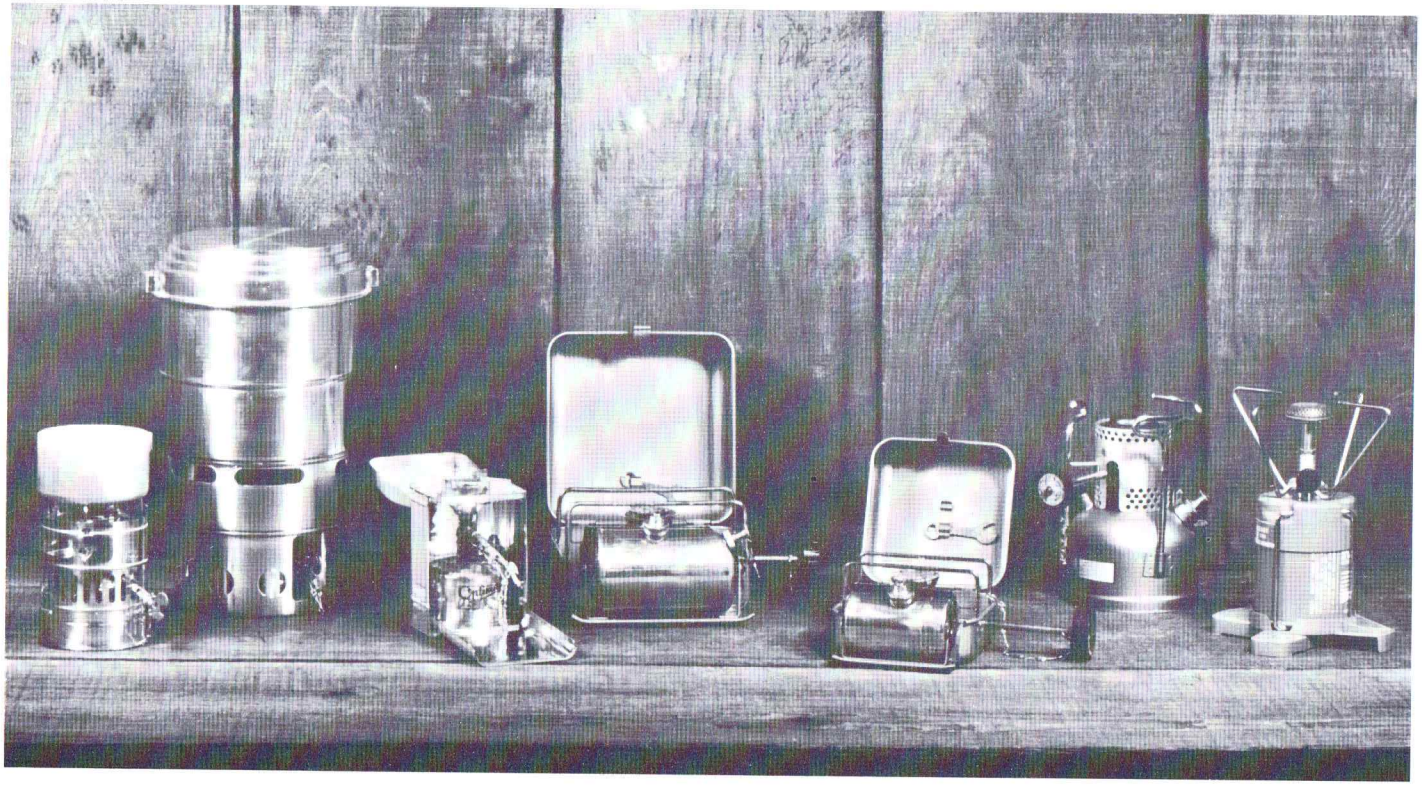
ALPINE STRETCH RAGG SOCKS. 85% wool, 13% nylon, 2% spandex. Grey and white twist. Stretch sizes: 8½-11, 11-14.
A904 . . . . . ave. wt. 4 oz. . . . . **$ 2.25**

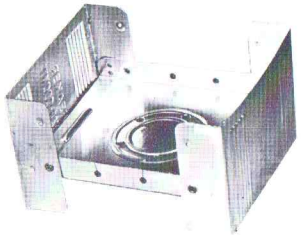
ADLER STRETCH SOCKS. 55% wool, 45% synthetic. A medium-weight sock for sport or casual wear. Shrink resistant. Colors: green, bourbon, grey, white. One size 10½-13.
A906 . . . . . ave. wt. 2½ oz. . . . . **$ 1.50**

WICK-DRY SOCKS. Double layer socks. Inner layer repels moisture while outer layer absorbs moisture, keeping feet dry. 50% orlon, 40% nylon, 10% cotton. Stretch sizes: 9-11, 10-13. Color: white.
A908 . . . . . ave. wt. 3½ oz. . . . . **$ 2.60**

WICK-DRY LIGHTWEIGHT INNER SOCKS. Recommended for wear under heavy bootsocks. 70% polypropylene, 30% nylon fibers carry moisture away from foot. Color: white. Stretch sizes: 9-11, 10-13.
A909 . . . . . ave. wt. ¾ oz. . . . . **$ 1.00**

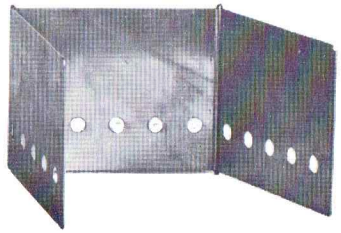
MOJAVE LIGHTWEIGHT WOOL INNER SOCKS. 100% wool. For wear under heavy bootsocks. Color: white. Sizes: 8½-9, 9½-10, 10½-11, 11½-12, 12½-13.
A910 . . . . . ave. wt. 1¼ oz. . . . . **$ 1.25**





HEAT TAB STOVE. Simple folding stove uses solid fuel tablets. Two hours fuel included.
U716 ..... wt. 2 oz. ..... **$ 2.00**

HEATABS. Solid fuel tablets. May be used with Heatab stove or for starting fires and priming gasoline stoves.
2 hr. supply
U717 ..... wt. 3 oz. ..... **$ 1.00**
4 hr. supply
U718 ..... wt. 6 oz. ..... **$ 1.40**



ALUMINUM WINDSCREEN. Folding windbreak for small stoves. Three 5" x 6" hinged panels. Draft holes near bottom.
U740 ..... wt. 4 oz. ..... **$ 4.75**

SVEA 123. An ideal combination of high efficiency and low weight, this practical Swedish stove will fit into any ordinary rucksack pocket. Burns about 1 hour on 1/3 pint of white gasoline. Rated to boil 1 quart of water in 6 minutes. Requires no pumping. Safety valve. Integral windscreen also serves as stand for pots. Small pot is included with stove. Packed size with windscreen and pot 5" x 3¾" diameter.
U703 ..... wt. 18 oz. **$12.00**

SIGG TOURIST. A lightweight camp stove set, designed for use with Svea stove. Set consists of one casserole of 2½ pint capacity, one casserole of 3½ pint capacity, one lid/pan, upper and lower wind guard, strap, and Svea gasoline stove. Stove fits inside pots. Nested size 8¼" dia. x 4¾" high.
U733 ..... wt. 2 lbs. **$21.50**

Sigg Tourist set without stove.
732 ..... wt. 21 oz. **$11.00**

OPTIMUS 80. This compact stove comes in a metal box which serves as a windscreen/cooking pot stand. Burns white gas and requires no pumping. ½ pint burns about 1½ hours. Rated to boil 1 quart of water in 4 to 5 minutes. Size closed 5¾" x 3¾" x 3¾".
U701 ..... wt. 20 oz. **$11.50**

OPTIMUS 111B. Wide, low profile gives stable base for pots. 1 pint of white gas will last about 2 hours. Powerful, regulating burner with self-cleaning device. Rated to boil 1 quart of water in 3 to 4 minutes. Wind-shield ensures perfect working under adverse conditions. Built-in pump provides desired pressure. Brass tank with safety valve. Japanned steel case measures 6¾" x 6¾" x 4-1/8".
U715 ..... wt. 3-1/3 lbs. **$21.50**

OPTIMUS 8R. Smaller version of the 111B. Self pressure system. 1/3 pt. of white gas lasts about 1¼ hrs. Rated to boil 1 qt. of water in 6 to 7 minutes. Size 5" x 5" x 3".
U714 ..... wt. 27 oz. **$12.75**

PHOEBUS 625. Ideal for high-altitude expeditionary use, this compact and versatile Austrian stove is rated to boil one quart of water in 4 minutes. Burns white gas, but regular gas may be used if the cooking area is properly ventilated. Burns 1½ hours on one pint of fuel. Packed in a 5½" dia. x 7½" metal cylinder.
U707 ..... wt. 42 oz. **$15.00**

BLEUET. This French stove uses disposable butane cartridges. Each cartridge will burn for 2½ to 3 hours at maximum flame. Regulating valve controls flame. No priming, preheating, or pumping—simply open valve and light. Comes complete with one butane cartridge. 8½" x 3½".
U710 with cartridge wt. 25 oz. ... **$ .7.50**
Bleuet Windscreen
710/w ..... wt. 2 oz. ..... **$ 1.00**
Bleuet Cartridge
U711 ..... wt. 10 oz. .... ea. **$ .80**
Box of 6 Bleuet Cartridges
U712 ..... wt. 3¾ lbs. ..... **$ 4.50**
Cleaning Needle ..... **$ .35**

PLASTIC MATCH BOX. Waterproof, hard plastic. Cork gasket, striking flint. 2¾" x 1".
E506 ..... wt. 1½ oz. ..... **$ .45**

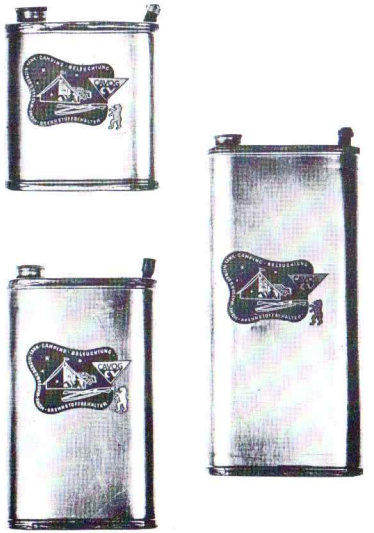
FLINT STICK. Gives off a high-temperature spark that will ignite flammable gases and liquids or tinder. Comes in kit with flint, striker, tinder, and key ring.
E504 ..... wt. ¾ oz. ..... **$ 1.00**

METAL MATCH. Simply hold over tinder and ignite by rapidly scraping with a sharp object, which will produce a shower of long-lasting high temperature sparks.
E505 ..... wt. ¾ oz. ..... **$ 2.50**

Butane cartridges may not be shipped by Air Mail.

STOVE CHART

MODEL	FUEL TYPE	FUEL CAP.	BURNING TIME	TIME TO BOIL 1 QT. WATER
Svea 123	White gas	1/3 pt.	1 hr.	6 min.
Optimus 80	White gas	½ pt.	1½ hr.	6-8 min.
Optimus 8R	White gas	1/3 pt.	1¼ hr.	6-7 min.
Optimus 111B	White gas	1 pt.	2 hrs.	3-4 min.
Phoebus	White gas	1 pt.	1½ hr.	4 min.



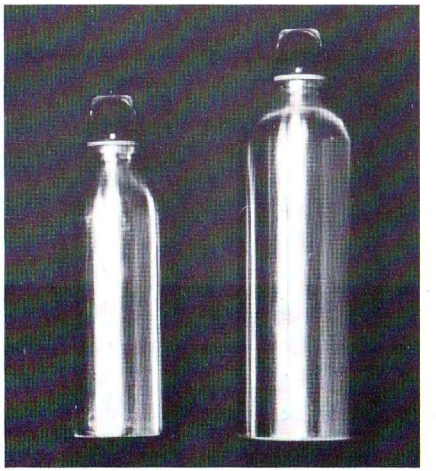
FUEL CONTAINERS. Flat type. Tin alloy, leakproof, non-corrosive. Brass pouring spout and filling cap. Built-in filtering screens.

U620 1 pint
4" x 1¾" x 4½" ..... wt. 4 oz. ... **$ 2.25**

U621 1½ pint
4" x 1¾" x 7" ..... wt. 5 oz. ... **$ 2.50**

U622 1 quart
4" x 1¾" x 9½" ..... wt. 6 oz ... **$ 2.75**

PLASTIC FUNNEL. Lightweight polyethylene, with metal screen to filter gas for camp stoves, etc.
U911 ..... wt. ¼ oz. ..... **$ .50**

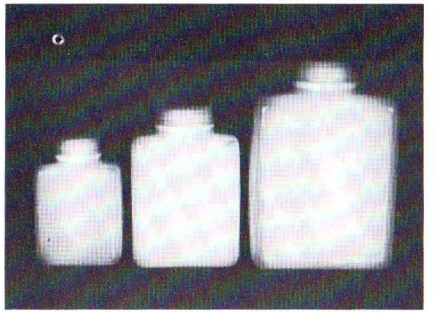


ALUMINUM BOTTLES. Leakproof and non-corrosive. Good fuel bottles.

Red Anodized Finish
U610 pint ..... wt. 4¼ oz. ... **$ 2.00**
U612 quart ..... wt. 6 oz. ... **$ 2.25**

Spun Aluminum Finish
U600 pint ..... wt. 4¼ oz. ... **$ 1.50**
U602 quart ..... wt. 6 oz. ... **$ 1.70**

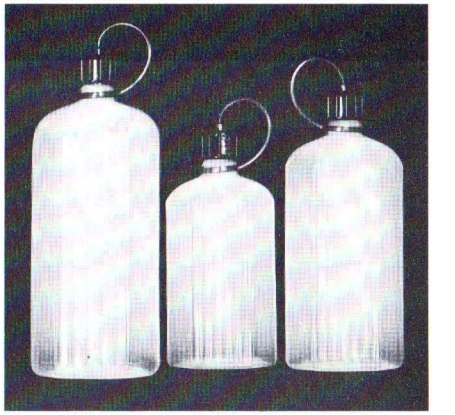
PLASTIC BOTTLES. Round style. Linear Polyethylene for greater strength.
U62003 ... ½ pt. . wt. 1¼ oz. .... **$ .30**
U62004 ... 1 pt. . wt. 2¼ oz. .... **$ .45**
U62005 ... 1 qt. . wt. 3½ oz. .... **$ .80**



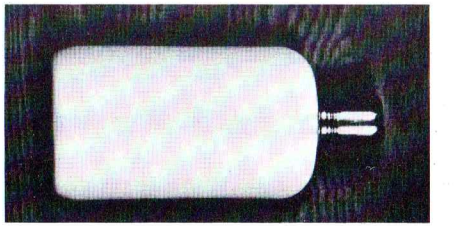
PLASTIC BOTTLES. Rectangular shape packs well in minimal space. Linear polyethylene.
U62008 .. ½ pt. . wt. 1½ oz. .... **$ .42**
U62009 ... 1 pt. . wt. 3½ oz. .... **$ .60**
U62010 ... 1 qt. . wt. 4½ oz. .. **$ 1.10**

PLASTIC BOTTLES. Square shape for efficient packing. Linear polyethylene.
U62114 .. ½ pt. . wt. 1¼ oz. ... **$ .55**
U62115 ... 1 pt. . wt. 2¼ oz. .... **$ .75**
U62116 .... 1 qt. wt. 3½ oz. .. **$ 1.15**

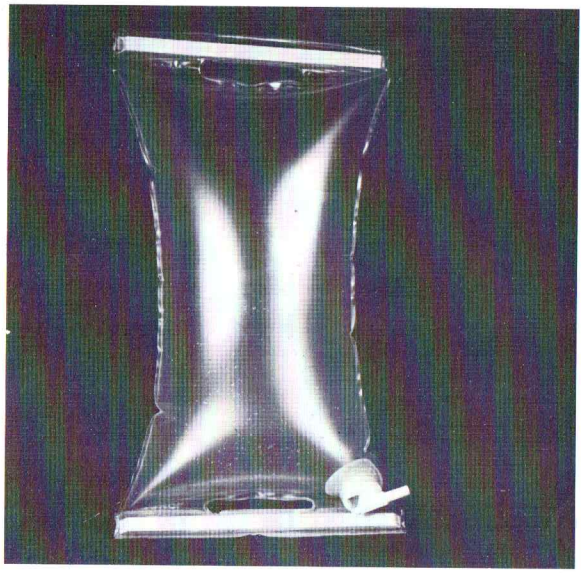
PLASTIC WIDE-MOUTH BOTTLES. Unbreakable polyethylene. Positive sealing heavy-duty lid.
U650 ½ pint ..... wt. 1¾ oz. .... **$ .90**
U651 1 pt. ..... wt. 2¾ oz. ... **$ 1.25**
U652 1 qt. ..... wt. 5½ oz. ... **$ 1.50**



BOTTLES WITH ATTACHED CAP. Made in Austria of non-breakable soft polyethylene. Vertical corrugations for strength. Non-losable plug stopper and screw cap.
U630 1 pt. ..... wt. 2¼ oz. .... **$ .70**
U631 1½ pt. ..... wt. 3 oz. .... **$ .75**
U632 1 qt. ..... wt. 3½ oz. .... **$ .90**

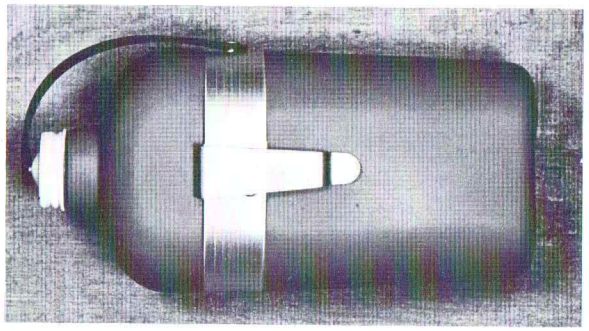


PLASTIC FLASK. Unbreakable. Translucent frosted finish. Shaped to fit hip. Two caps; outer one measures 1 fluid oz.
U643 ..... wt. 2 oz. ..... **$ 1.25**

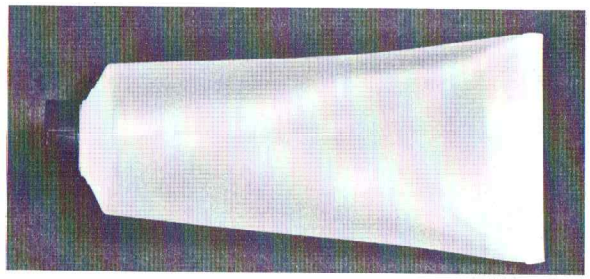


COLLAPSIBLE WATER BAG. Thick, flexible vinyl container holds 11 quarts. May be rolled up. Removable spigot at bottom, handles at both ends. Convenient water supply.
U662 ..... wt. 8½ oz. ..... **$ 3.00**

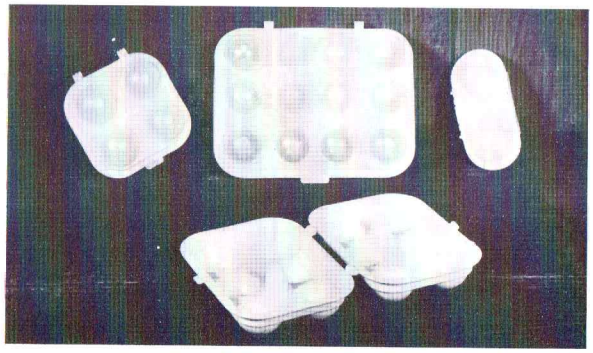
COLLAPSIBLE PLASTIC BOTTLE. Stands upright when filled—collapses when empty. Leakproof plastic screw cap. 5 qt. capacity.
U655 ..... wt. 4½ oz. ..... **$ 1.25**



PLASTIC CANTEEN. Lightest of its type. Attached metal cap and belt clip. Holds 1 quart.
U644 ..... wt. 4 oz. ..... **$ 2.60**

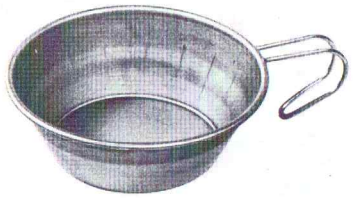


POLY-SQUEEZE TUBE. Solves the packaging problem for hard-to-carry foods; jams, margarine, honey, peanut butter. Refillable by disengaging the clip at the end. Eggs can be broken into the open tube; yolks will usually remain intact for quick and easy fried eggs in the morning.
U638 ..... wt. ¾ oz. ..... **ea. $ .40**
3 for $ 1.15
Extra Clips 3 for $ .25



PLASTIC EGG BOXES. Hard plastic; will not dent or crush. Condiment containers included.

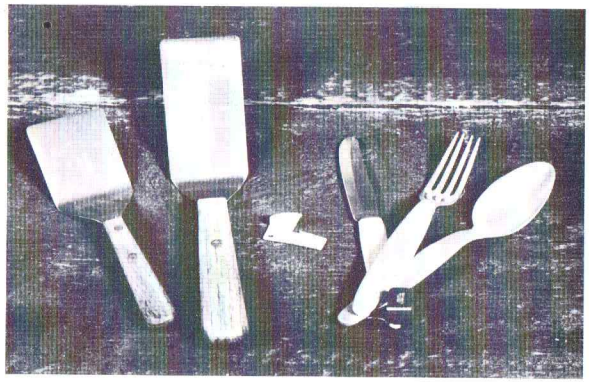
U802 ..... 2-egg ..... wt. 1 oz. ..... **$ .40**
U804 ..... 4-egg ..... wt. 2½ oz. ..... **$ .60**
U806 ..... 6-egg ..... wt. 3¾ oz. ..... **$ 1.00**
U812 ..... 12-egg ..... wt. 6 oz. ..... **$ 1.50**



SIERRA CLUB CUP. Classic stainless steel design, far superior to other metals as it is less prone to heat up when filled with hot liquids. The steel wire handle remains cool and can be easily hooked onto belt. Useful for stews, cereals, etc., as well as beverages. 4½" top diameter, 3-1/8" at base, 1¾" deep, nesting.

U400 ..... wt. 3 oz. ..... **$ 1.25**

PLASTIC CUP. Tough, flexible polypropylene. Marked in ¼-cup increments. Cups nest for packing. Color: green.
U405 ..... wt. 1 oz. ..... **$ .25**

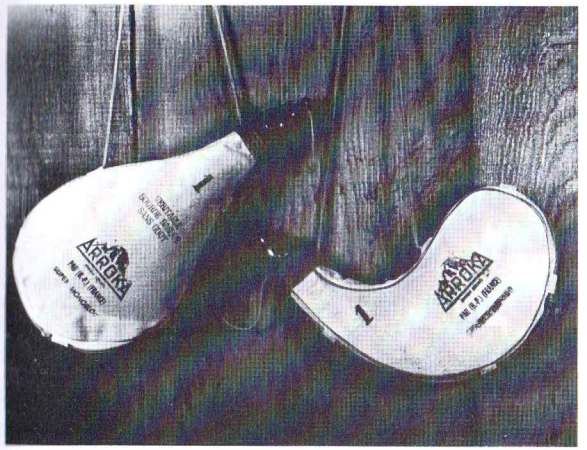


SPATULAS. Rustproof, light stainless steel blade. Hardwood handle with brass rivets.

U901 .... 2" x 2¾" blade .... wt. 1½ oz. ..... **$ 1.75**
U902 ..... 2" x 4" blade .... wt. 2½ oz. ..... **$ 2.00**

HANDY OPENER. Tiny, lightweight, efficient folding can opener. Doubles as screwdriver and lid pryer.
U910 ..... wt. 1/8 oz. ..... **$ .15**

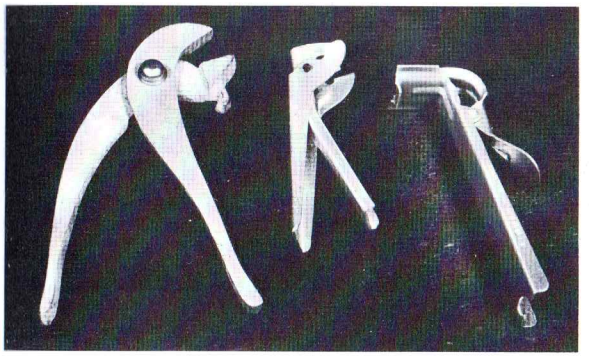
KNIFE FORK SPOON SET. British import. All aluminum with Sheffield stainless steel knife blade. Clip holds utensils firmly together.
U403 ..... wt. 3 oz. ..... **$ 1.75**



BOTAS. Authentic Basque winebags. Made of natural tan suede. Lined with tasteless clear coating to protect contents. Red sling cord. Contents can either be poured from the filler spout or squirted directly into the mouth.

U680 ..... 1 quart kidney shape ... wt. 6 oz. ... **$ 7.50**
U681 ..... 1½ quart kidney shape wt. 6½ oz. ... **$ 8.50**
U682 ..... 1 quart teardrop shape .. wt. 5 oz. ... **$ 6.50**
U683 .... 1½ quart teardrop shape .. wt. 6 oz. ... **$ 7.50**

SALT AND PEPPER SHAKER. Imported 2-section plastic container. Flip-up cap prevents spilling.
U800 ..... wt. 1¼ oz. .....**$ .70**



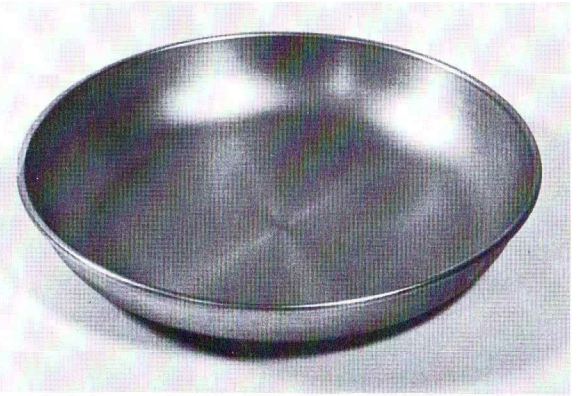
HOT POT TONGS. Lightweight aluminum for gripping hot pots. Hook for lifting wire bales.
U905 ..... wt. 3¾ oz. ..... **$ 1.25**

ALUMINUM POT GRIPPER. Simple, very lightweight. 4¾" long.
U906 ..... wt. 1½ oz. .....**$ .75**

STEEL POT GRIPPER. Spring-loaded grip. Stronger for heavy pots than aluminum. 6" handle.
U907 ..... wt. 3¼ oz. .....**$ .95**

ALUMINUM SCOUT KETTLES. Swiss-made nesting kettles of first-quality workmanship. Securely fastened bail handles which lock into an upright position. The lid of each kettle also serves as plate or pan.

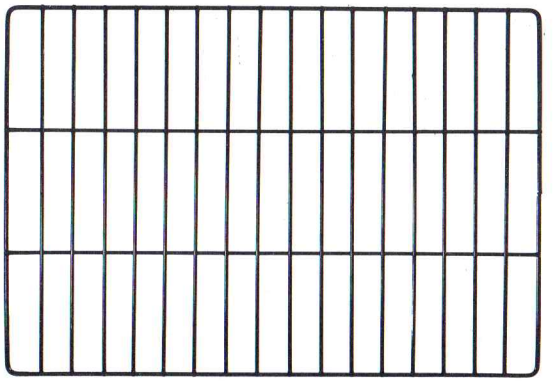
U016 .. 2½ pint ... 6¼" dia. .... wt. 8¾ oz. ... **$ 4.50**
U018 .. 3½ pint ... 7¼" dia. ... wt. 11½ oz. ... **$ 5.25**
U020 .. 5¼ pint .... 8" dia. ... wt. 14½ oz. ... **$ 6.00**
U022 .... 7 pint ... 8¾" dia. ... wt. 17½ oz. ... **$ 7,75**
U024 .. 8¾ pint ... 9¾" dia. ..... wt. 20 oz. ... **$ 8.25**



ALUMINUM DEEP PLATE. Light aluminum. Rounded edges. 8" diameter.
U401 ..... wt. 3 oz. ..... **$ 1.25**

STEEL FRY PAN. Far superior to aluminum for frying. Detachable handle.
U130 ..... 8¾" dia. ..... wt. 12 oz. ..... **$ 2.85**

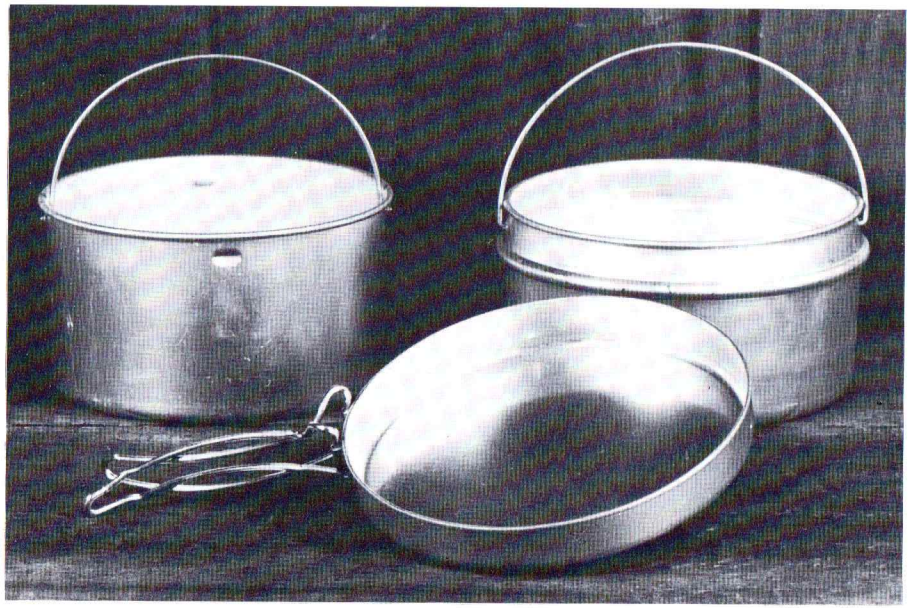
BACKPACKER GRILL. Lightweight and adaptable. Stainless steel tube construction. Large enough for two average-sized pots. Includes lightweight fabric case. 5" x 15½".
U504 ..... wt. (w/case) 4 oz. ..... **$ 6.50**



WIRE GRILL. Simple lightweight platform without legs. Nickel-plated steel. 9" x 13".
U502 ..... wt. 7 oz. ..... **$ 1.50**

SAFARI ONE-MAN COOKSET. Spun aluminum from West Germany. Includes 8" plate, 7" fry pan, 6¼" dia. pot with lid, spoon-fork combination, spring pot gripper, and plastic cup. Packs into neat unit 2½" x 8" diameter. Exceptionally lightweight and an excellent value.
U301 ..... wt. 17½ oz. ..... **$ 5.50**

ALUMINUM 4-MAN COOKSET. 6, 4, and 2 quart pots. 9¼ Teflon coated fry pan/lid. 8¼" fry pan/lid. 2 quart coffee pot w/lid. Four plates, 2 detachable handles, 4 plastic cups. Entire set nests in largest pot.
U304 ..... wt. 4½ lbs. **$12.00**



TWO-MAN MOUNTAIN COOKSET. Strong and compact aluminum 3-piece set consisting of two pots with bail handles and a fry pan with folding wire handle.
U303 ..... wt. 21 oz. ..... **$ 4.25**

NESTING BILLY KETTLES. A set of 1, 2 and 3 quart aluminum nesting kettles. Matching lids with wire handles also serve as plates or fry pans. Nested size: 8" x 7" diameter.
U030 ..... wt. 40 oz. **$10.00**

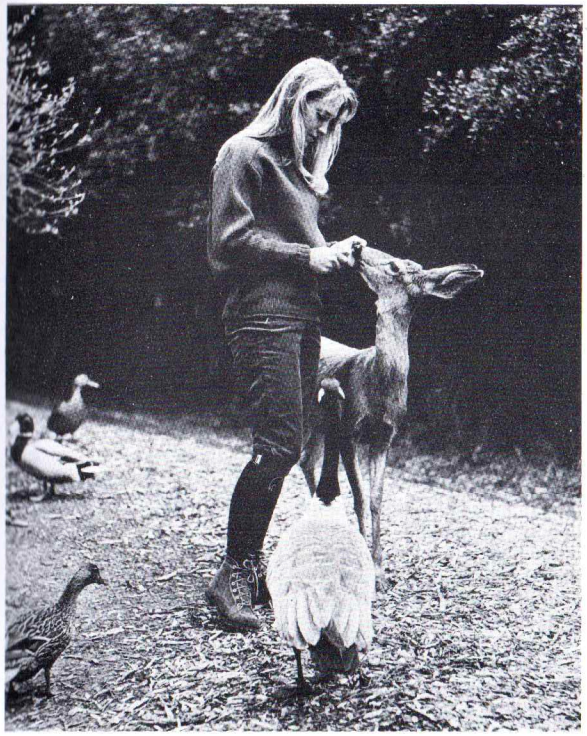
KEY TO SUPPLIERS

RM Richmoor
DL Dri-Lite
W Wilson
O Oregon Freeze-Dried

All weights are supplied by manufacturers.
All prices are subject to change without notice.

Discount policy:
1. 10% discount on all orders over $100.00.
2. 20% discount on all orders over $250.00.*
3. 30% discount on all orders over $500.00.*

Please allow 3 weeks shipment on 20% and 30% discount orders.
* Applies to Richmoor items only.



PLASTIC FOOD BAGS WITH CLIPS. Reusable strong polyethylene bag with patented clip for airtight closure. Packaged in units of 11.

U972	2" x 4" x 12"	**$1.75**
U975	3" x 6" x 15"	**$2.10**
U978	6" x 4" x 18"	**$2.65**

POLYETHYLENE BAGS. Lightweight (.0015 gauge), durable, tear-resistant, odorless.

U962	4" x 2" x 12"	**50 bags $ .50**
U965	6" x 3" x 15"	**50 bags $ .75**
U968	6" x 4" x 18"	**50 bags $1.00**

Item	net wt.	servings	price
BREAKFAST DISHES			
Familia Birchermuesli	13 oz.		1.25
Eggs w/butter (O)	2.2 oz.	2	1.09
Eggs 'n bac-o-bits (RM)	4¼ oz.	4	1.15
Eggs 'n bac-o-bits (RM)	2½ oz.	2	.65
Scrambled eggs (RM)	3¾ oz.	4	1.00
Cheese omelette (O)	2.4 oz.	2	1.25
Mexican omelette (O)	2.9 oz.	2	1.42
Pancake mix (RM)	11½ oz.	4	.50
Blueberry pancake mix (RM)	11 oz.	4	.65
Maple syrup mix (RM)	6½ oz.	4	.35
Blueberry syrup mix (RM)	6½ oz.	4	.40
Oatmeal w/sugar and milk (RM)	10½ oz.	4	.50
Western omelette (RM)	4½ oz.	4	1.15
French toast mix (RM)	4½ oz.	4	.70
"Astro" freeze-dried eggs w/butter (RM)	3 oz.	2	1.65
DINNER DISHES WITH MEAT			
Creamed chicken w/noodles (DL)	11 oz.	4	2.30
Vegetable beef stew (RM)	8¾ oz.	4	2.65
Vegetable beef stew (RM)	4½ oz.	2	1.65
Chili mac w/beef (RM)	11½ oz.	4	2.15
Quick chicken rice dinner (RM)	11 oz.	4	2.05
Quick chicken rice dinner (RM)	5½ oz.	2	1.45
Chili con carne ranchero (RM)	12½ oz.	4	2.40
Chili con carne ranchero (RM)	6½ oz.	2	1.50
Beef stroganoff w/noodles (RM)	12¾ oz.	4	2.55
Beef stroganoff w/noodles (RM)	6½ oz.	2	1.60
Chicken a la king (RM)	6½ oz.	4	2.10
Turkey supreme w/noodles (RM)	13¼ oz.	4	2.45
Sunset supper (DL)	7½ oz	4	2.25
Spaghetti w/meatballs (RM)	13½ oz.	4	2.50
Spaghetti w/meat sauce (RM)	7¼ oz.	2	1.40
Ham 'n beans (RM)	15 oz.	4	2.65
Ham & cheese dinner (RM)	12 oz.	4	2.45
Freeze-dried ham & eggs (RM)	6¾ oz.	4	3.45
Shrimp creole (RM)	10¾ oz.	4	2.60
Tuna Casserole (RM)	11 oz.	4	2.85
Corned beef (RM)	8 oz.	4	2.75
Meatballs w/mashed potatoes & gravy (RM)	13 oz.	4	2.95
Chicken romanoff	13 oz.	4	2.70
Chicken pilaf (RM)	13 oz.	4	2.75
Chicken stew (RM)	9 oz.	4	2.95
Chicken stew (RM)	4½ oz.	2	1.60
Beef stew (O)	3¾ oz.	2	1.60
Chicken stew (O)	3½ oz.	2	1.60
Beef w/rice (O)	4¾ oz.	2	1.40
Pork & potatoes (O)	4½ oz.	2	1.60
Beef chop suey (O)	3½ oz.	2	1.60
Chicken chop suey (O)	3½ oz.	2	1.60
Chunk chicken (O)	3¾ oz.	2	1.60
Beef almondine (O)	3-1/3 oz.	2	1.60
Tuna a la neptune (O)	3½ oz.	2	1.60
Turkey tetrazinni (O)	3-1/5 oz.	2	1.60
Chunk chicken w/rice & carrots (O)	1.3 oz.	1	.60
Beef almondine (O)	1.2 oz.	1	.60
Tuna a la neptune (O)	1.2 oz.	1	.60
Turkey tetrazinni (O)	1 oz.	1	.60

Item	net wt.	servings	price
MEATLESS DINNER DISHES.			
Chili 'n beans (DL)	10 oz.	4	1.00
Spanish rice (RM)	9½ oz.	4	1.15
Vegetable stew (DL)	5 oz.	4	1.10
Macaroni & cheese (RM)	13 oz.	4	1.10
Spaghetti w/Italian sauce (RM)	13 oz.	4	1.15
Chili w/beans (O)	5½ oz.	2	1.42
MEATS			
Beef jerky	1 oz.		.75
Beef jerky	4 oz.		1.98
Beef jerky	8 oz.		4.00
Beef jerky	16 oz.		7.95
Beef steaks (W)	2 oz.	2	2.60
Pork chops (W)	2 oz.	2	1.60
Hamburgers (W)	3¼ oz.	2	2.00
Diced Ham (W)	1 oz.	2	.70
Beef patties (W)	2 oz.	2	1.40
Pork patties (W)	2 oz.	2	1.60
Meatballs (W)	1¾ oz.	2	1.20
Meat bars (W)	3 oz.		1.50
Bacon bars (W)	3 oz.		1.25
Freeze-dried chicken (RM) for use as an additive	1½ oz.		1.35
Freeze-dried beef (RM) for use as an additive	1¼ oz.		1.20
Freeze-dried ham (RM) for use as an additive	1¼ oz.		1.55
Freeze-dried corned beef for use as an additive	1¼ oz.		1.70
VEGETABLES			
Instant mashed potatoes (RM)	7 oz.	4	.45
Hashed brown potatoes (RM)	6 oz.	4	.55
Potatoes O'Brien (hashed browns w/freeze-dried peppers & onions) (RM)	6 oz.	4	.70
Potatoes O'Brien	3 oz.	2	.40
Corn (RM)	2½ oz.	4	.75
Peas (RM)	2¼ oz.	4	.75
Peas and carrots (RM)	2¾ oz.	4	.70
Green beans (RM)	1 oz.	4	.75
Carrot slices (RM)	3 oz.	4	.50
Tomato flakes (DL)	1 oz.	4	.45
Toasted Onions (RM)	2 oz.	4	.50

FRUITS, SALADS, AND DESSERTS

Item	net wt.	servings	price
Sierra salad (gelatin mix)(DL)	4 oz.	4	.55
Fruit salad (DL)	6 oz.	4	.75
Tuna salad (RM)	3 oz.	4	2.00
French apple compote (RM)	5½ oz.	4	.65
Wild cherry gel-dessert (RM)	5¼ oz.	4	.40
Puddings:			
Chocolate (RM)	6 oz.	4	.55
Chocolate (RM)	3½ oz.	2	.35
Lemon (RM)	6 oz.	4	.40
Vanilla (RM)	5 oz.	4	.45
Butterscotch (RM)	5 oz.	4	.45
Banana creme (RM)	6 oz.	4	.55
Chocolate creme pie (RM)	11½ oz.	4	.90
Lemon pie (RM)	10½ oz.	4	.65
Raspberry cobbler (RM)	11½ oz.	4	.95
Blueberry cobbler (RM)	11½ oz.	4	.95
Pineapple cheesecake (RM)	12 oz.	4	.95
Fudge brownies w/nuts (RM)	11¾ oz.	4	.90
Apricot slices w/sugar (RM)	6 oz.	4	.95
Peach slices w/sugar (RM)	6 oz.	4	.95
Fruit cocktail w/sugar (RM)	6 oz.	4	.90
Appleberry sauce	4½ oz.	4	.75
Instant applesauce w/sugar (RM)	4½ oz.	4	.65
Instant applesauce (RM)	2¾ oz.	2	.40
Spiced apple chips (RM)	3½ oz.	4	.80
Crunchy banana chips (RM)	4 oz.	4	.65
Fruit mix (RM)	4 oz.	4	.75
Apple slices (RM)	4 oz.	4	.75
Pear slices (RM)	4 oz.	4	.60
Pineapple (RM)	6 oz.	4	.40
Strawberries (sliced)(O)	1 oz.	2	1.10
Plums (sliced)(O)	2 oz.	2	.95
Pears (sliced)(O)	1 oz.	2	.85
Apples (sliced)(O)	1 oz.	2	.85
Peaches (sliced)(O)	1 oz.	2	.85

SOUPS

Item	net wt.	servings	price
Maggi Swiss soups	2½ oz.	4	.40
pea w/ham			
mushroom			
oxtail			
minestrone			
chicken noodle			
chicken flavored cream soup			
spring vegetable			
egg macaroni			
yellow pea w/bacon			
spaghetti w/meatballs			
rice w/mushrooms			

BEVERAGES

Wylers fruit-ade mixes

Item	net wt.	servings	price
Strawberry	3 oz.	1 qt.	2/.25
Cherry	3 oz.	1 qt.	2/.25
Grape	3 oz.	1 qt.	2/.25
Orange	3 oz.	1 qt.	2/.25
Lemonade	3 oz.	1 qt.	2/.25
Pink Lemonade	3 oz.	1 qt.	2/.25
Lime	3 oz.	1 qt.	2/.25
Fruit Punch	3 oz.	1 qt.	2/.25
Root Beer	3 oz.	1 qt.	2/.25
Nestle instant cocoa	1 oz.	1	.85/dz.
Freeze-dried coffee (in can)(O)	2 oz.	40 cups	1.00
Freeze-dried coffee (foil packet)(O)	1.2 gm.	1 cup	.06
Freeze-dried orange juice drink (RM)	5 oz.	1 qt.	.85
Grapefruit juice drink (RM)	5 oz.	1 qt.	.90
Pineapple juice drink (RM)	5 oz.	1 qt.	.85
Instant tomato juice (RM)	2¼ oz.	¾ qt.	.45
Chocolate shake (RM)	10¾ oz.	4	.80
Strawberry shake (RM)	10 oz.	4	.80
Vanilla shake (RM)	10 oz.	4	.75

RICHMOOR PACKAGED MENUS - ave. wt. under 2 lbs.

Item	net wt.	servings	price
Breakfast No. 1	30 oz.	4	2.10
instant applesauce			
pancake mix			
maple syrup mix			
sweet milk cocoa			
cooking oil			
Breakfast No. 2	22¼ oz.	4	3.05
orange juice drink			
eggs 'n bac-o-bits			
hashed brown potatoes			
sweet milk cocoa			
cooking oil			
Breakfast No. 3	38½ oz.	4	3.55
appleberry sauce			
bacon bar			
cornbread mix			
maple syrup mix			
sweet milk cocoa			
cooking oil			
Breakfast No. 4	23¼ oz.	4	3.65
instant applesauce			
scrambled eggs w/freeze-dried ham			
potatoes O'Brien			
sweet milk cocoa			
cooking oil			
Breakfast No. 5	31 oz.	4	3.15
fruit cocktail			
western omelette			
sierra coffee cake			
sweet milk cocoa			
cooking oil			
Complete 2-man Breakfast	14 oz.	2	2.10
applesauce			
eggs 'n bac-o-bits			
potatoes O'Brien			
sweet milk cocoa			
cooking oil			
Lunch No. 1	19-5/8 oz.	4	3.05
swiss cheese w/bac-o-crisps			
crisp toast			
beef jerky			
fruit punch			
Lunch No. 2	30½ oz.	4	3.05
spicy apple chips			
grape jelly spread			
peanut butter spread			
pilot biscuits			
vanilla shake mix			
Lunch No. 3	35-3/8 oz.	4	3.75
ham salad			
pilot biscuits			
pineapple Waikiki			
fruit punch			
Lunch No. 4	36 oz.	4	3.50
bacon bar			
cheddar cheese spread			
pilot biscuits			
chocolate shake mix			
Lunch No. 5	25½ oz.	4	3.90
white meat tuna salad spread			
pilot biscuits			
lemon-lime fruit beverage			
Gorp trail snack			
Dinner No. 1	28¾ oz.	4	3.75
chicken rice soup			
chili mac w/beef			
chocolate pudding			
fruit punch			
Dinner No. 2	27¼ oz.	4	3.65
freeze dried corn			
chicken a la king			
instant mashed potatoes			
vanilla pudding			
orange beverage			
Dinner No. 3	37 oz.	4	4.45
tomato noodle soup			
vegetable beef stew			
dumplings (biscuit mix)			
butterscotch pudding			
pineapple-orange beverage			
Dinner No. 4	26¾ oz.	4	3.65
vegetable beef soup			
quick chicken rice dinner			
french apple compote			
lemon beverage			
Dinner No. 5	27½ oz.	4	3.95
french onion soup			
beef stroganoff w/noodles			
instant lemon pie mix			
grape beverage			
Dinner No. 6	32 oz.	4	4.45
beef bouillon			
chicken stew			
lemon-lime beverage			
raspberry cobbler			
Complete 2-man Dinner	16 oz.	2	2.20
spaghetti w/meat sauce			
beef bouillon			
chocolate pudding			
fruit punch beverage			

HIGH ENERGY LUNCH AND SNACK FOODS

Hershey tropical no-melt chocolate	1 oz.	2/.15
H&M Kwik-lunch	4 oz.	.70
H&M pemmican fruit bar	1 oz.	.20
H&M trail biscuits (pkg. of 8)	5 oz.	.35
H&M chocolate malt tabs	4 oz.	.40
H&M cherry sucrose drops	4 oz.	.30
Ricola Swiss herb candy	3 oz.	.50
Tex-schmeltz traubenzucker lemon or chocolate candy	2 oz.	.30
Semi-sweet chocolate	8 oz.	.65
Cheddar cheese spread (RM)	4 oz.	.85
Instant egg salad spread (RM)	4¾ oz.	1.50
Instant ham salad spread (RM)	5 oz.	1.75
Instant chicken salad spread (RM)	3¾ oz.	1.65
Swiss cheese w/bac-o-crisps (RM)	4½ oz.	.75
Crunchy peanut butter (RM)	4 oz.	.55
Grape jelly (RM)	2½ oz.	.30
Blackberry jelly (RM)	2½ oz.	.30
Smoky Bac-O-Chiplets (RM)	5 oz.	.60
Nuts & fruits (RM)	5 oz.	.90
Sesame trail cookies (20/pkg.) (RM)	6 oz.	.55
"Gorp" (nuts, chocolate, raisins) (RM)	6 oz.	.75
"Gorp" (RM)	2¾ oz.	.40

MISCELLANEOUS ITEMS

Darigold canned butter	16 oz.	2.15
Sourdough starter	½ oz.	1.00
Gravy quick	1½ oz.	.21
Vegalene (cooking oil)	4 oz.	.85
Biscuit mix (RM)	11½ oz.	.45
Cornbread mix (RM)	10 oz.	.45
Pilot biscuits (RM)	10 oz.	.75
Beef flavored brown gravy (RM)	2 oz.	.35

NATURAL FOODS

NATURAL FOODS.
All food listed in this section is naturally grown with no chemical preservatives or chemical flavor enhancers.

MOON VALLEY FOOD.
Excellent and easily prepared foods for the backpacker providing a nutritious menu with minerals, lecithin, honey, cold pressed oils, naturally grown grains, seeds, nuts and complete proteins for efficient assimilation.

Item	net wt.	servings	price
Chapati Vegetable Burger	6 oz.	2	**1.30**
	12 oz.	4	**2.15**
Curried Shrimp Bengali	4 oz.	2	**1.40**
	8 oz.	4	**2.35**
Vegetable Curry	4 oz.	2	**1.40**
	8 oz.	4	**2.40**
Vegetable Herb Soup	4 oz.	4	**1.12**
Creme de Mushroom Soup	4 oz.	4	**1.08**
Spanish Omlette	4 oz.	2	**1.25**
	8 oz.	4	**2.10**
Mushroom Omlette	4 oz.	2	**1.40**
	8 oz.	4	**2.35**
Juniper Bark (Sesame Seed Candy)	4 oz.		**.80**

MUESLI FRUIT BISCUITS. German muesli in a biscuit form. Contains: rolled oats, whole wheat with wheat germ, vegetable oil, raw sugar, whey, almonds, hazelnuts, raisins, currants, apricots, oranges, apples, leavening, fruit acid and sea salt. Wt. 6-1/3 oz. ..... **$ .68**

HIGH PROTEIN DRINKS AND BROTHS. All natural ingredients. Laboratory balanced percentages of various amino acids, vitamins, and minerals. Mix with water for a quick source of natural protein.

80% PROTEIN DRINK	1 lb. pkg.	**$2.30**
50% CAROB PROTEIN DRINK	1 lb. pkg.	**$1.95**
NATURAL PROTEIN CHICKEN-FLAVORED BROTH	1 lb. pkg.	**$1.65**
NATURAL VEGETABLE PROTEIN BROTH	1 lb. pkg.	**$1.75**

HONEY-OAT CEREAL. Ready-to-eat. Just add milk. Contains oats, honey, safflower oil, wheat germ, coconut, sesame, salt, and vanilla. Wt. 16 oz. ..... **$ .59**

HONEY DIPPED FRUITS. Organically grown and tree ripened. Naturally dried and dipped in pure honey.

Apples	wt. 4 oz.	**$ .40**
Apricots	wt. 12 oz.	**$1.27**
Calmyrna Figs	wt. 12 oz.	**$ .96**
Peaches	wt. 12 oz.	**$1.07**
Pears	wt. 12 oz.	**$1.21**

RAW ENERGY NUGGETS. A candy-like food with honey, sunflower seed, sesame seed, carob powder, coconut, cashews, peanut butter, pumpkin seed. 1 lb. pkg. **$1.47**

ECO-PAK LOW-MOISTURE NATURALLY PROCESSED VEGETABLES. Nothing added—only water removed. 3 oz. size equals 1 lb. of fresh vegetables.

Oregon Garden Peas	wt. 3 oz.	**$ .68**
Sweet Corn	wt. 3 oz.	**$ .88**
Carrot Slices	wt. 1½ oz.	**$ .48**
Green Beans	wt. 1½ oz.	**$ .68**
Bell Pepper Slices	wt. 1½ oz.	**$1.08**
Onion Slices	wt. 1½ oz.	**$ .50**

KLEPPER

KLEPPER FOLDBOATS have been sailed across the Atlantic Ocean twice—a marvelous feat for a boat that can be carried by one man, stowed in the trunk of a car, and erected in 15 minutes. The secret is in the Klepper engineering. This remarkable craft has been in the process of perfection for over 50 years. The individual parts, straight-grained mountain ash with anodized aluminum fittings, lock into a tight and flexible framework. The hull is a tough laminate of rubber and canvas, fitting perfectly over the frame.

Undoubtedly the finest of their breed, Klepper foldboats have been a standard on many expeditions to the arctic and tropic regions of the world. Klepper models include single and double seat kayak, row boats, motor boats, and sailing sloops. All Klepper foldboats are equipped with built-in air sponsons which render them unsinkable.

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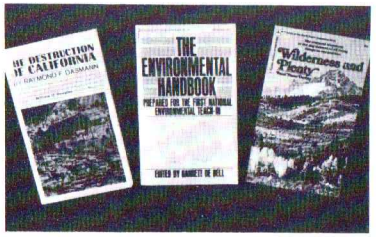

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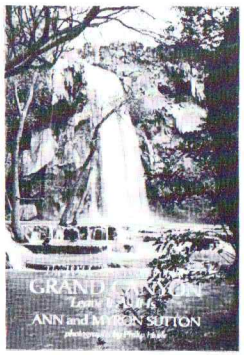

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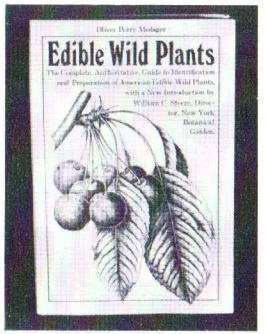

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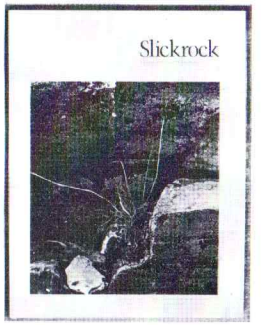

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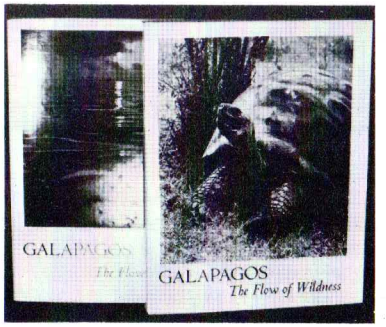

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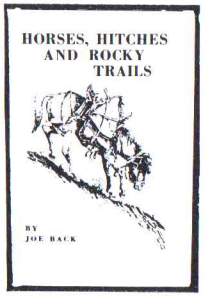

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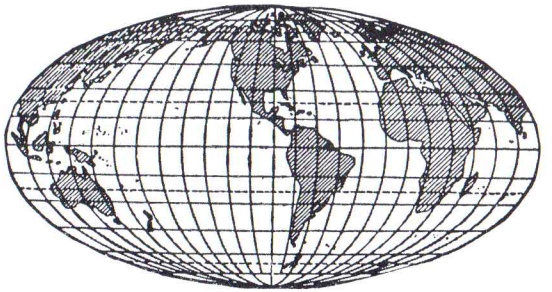

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a LENSATIC COMPASS. Engineer's type compass with sighting device for taking azimuth readings. Small magnifying glass gives degree reading off compass face while sighting. Inexpensive, sturdy and lightweight.

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d SILVA PROSPECTOR. Luminous points. Sapphire jewel bearing. Waterproof. Graduated 0° to 360°. Liquid filled housing is fitted into a drawer. Declination can be set off for any area. Closed size 2-5/8" x 1-7/8" x 13/16".

J302 ..... wt. 4 oz. $15.50

e SILVA EXPLORER III. Sapphire jewel bearing. Liquid filled housing stops oscillation within 4 seconds. Waterproof. Professional quality. Especially for use with maps. Size 2-1/8" x 2-15/16" x ½".

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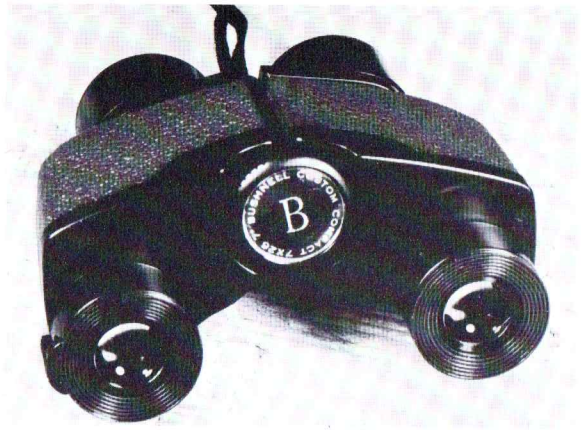
J201 ..... wt. 1 oz. ..... $ 3.00

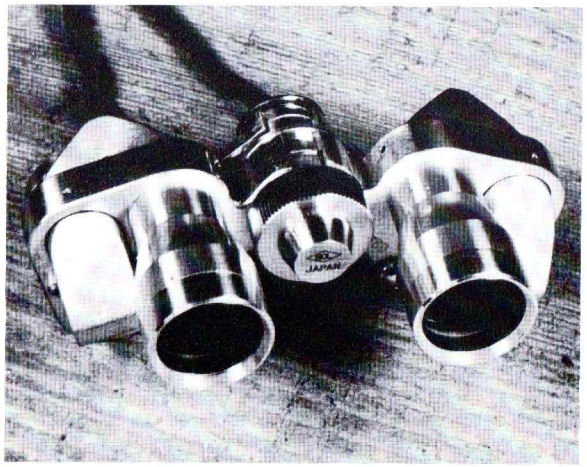


BUSHNELL CUSTOM COMPACT BINOCULARS. Selected by NASA scientists for use in Gemini space flights, this is the finest compact binocular we have ever seen. Three inches high and weighing only 11 ounces, the Custom Compact easily fits into jacket or shirt pocket. Featuring superb optics, rugged construction and extendable eye cups that give a full field of vision with or without glasses. Clarity and brilliance are unsurpassed. Comes in soft zippered carrying case of top-grade black cowhide. Twenty-year factory warranty on parts and service. Center focus.

6 x 25—6 times magnification. Field of view at 1,000 yards: 420'.
J405 ..... wt. 11 oz. **$66.00**

7 x 26—7 times magnification. Field of view at 1,000 yards: 368'.
J406 ..... wt. 11 oz. **$70.00**

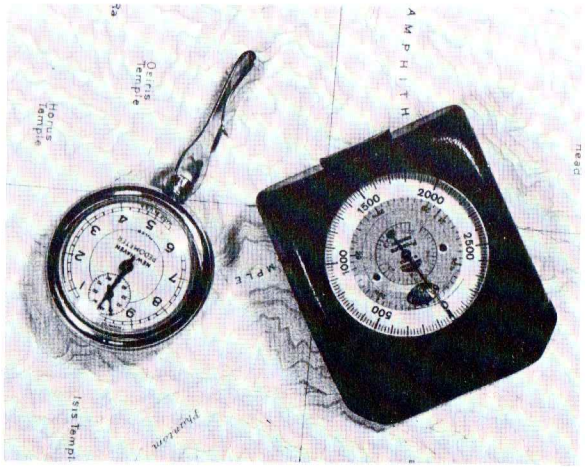
BUSHNELL 7 x 18 PRISMATIC BINOCULARS. For those who go light: mountaineers, backpackers or light-weight travelers. Bushnell quality throughout. Center focus. Feather-light, palm/pocket size. 7 times magnification. Includes soft leather carrying case. Bushnell 20-year factory warranty.
J403 ..... wt. 6 oz. **$30.00**

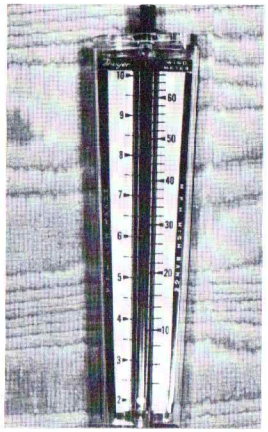


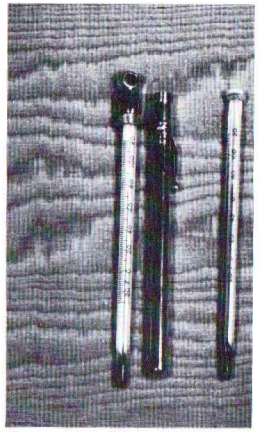
BUSHNELL MONOCULAR. A small (3½") prismatic scope made to Bushnell standards of precision and quality. Fully coated lens and prisms project crisp, brilliant, distortion-free views. 8 power 24 mm, wide-view lens gives a 437' viewing circle at 1,000 yards (equal to widest angle binoculars). Lens may be used alone as a magnifying glass. Soft, zippered carrying case, wrist strap, and protective lens cap are included. Five-year factory warranty.
J401 ..... wt. 4 oz. **$20.00**

NEW HAVEN PEDOMETER. Registers up to 100 miles. Has clip for fastening directly to belt. 90-day factory guarantee against all defects in material and workmanship. Polished nickel chrome finish.
J202 ..... wt. 3 oz. ..... **$ 8.00**

THOMMENS HIGH ALTITUDE ALTIMETER. Reads up to 21,000 feet with accuracy of about 30 feet within the entire range. Compensated for temperature changes. Instrument has a barometric scale with a range of 22.5" to 31" of mercury. Comes in leather case. Size 2-7/8" x 2½" x 7/8".
J203 ..... wt. 3 oz. **$76.00**





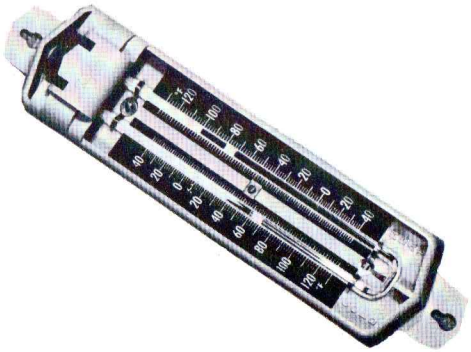


WIND METER. Accuracy of ½ mile/hr. on low scale and 3 miles/hr. on high scale. Dual range scale reads from 0 to 60 miles/hr. Precision die molded of acrylic plastic. Size: 8" x 3" x ½".
J204 ..... wt. 2½ oz. ..... **$ 6.50**

THERMOMETER. Ideal for mountaineers and campers. Range of –30° F. to 130° F. Comes in a metal case 6¼" long, 3/8" diameter (about pencil size) with pocket clip and carrying ring.
J205 ..... wt. 1½ oz. ..... **$ 3.00**

GLASS STEM REPLACEMENT TUBE for above thermometer.
J205/R .... **$ 2.25**

MAX-MIN THERMOMETER. This instrument will record the lowest temperature and the highest temperature from the time of its last setting. Range –30° F. to 130° F. Easy to reset. Size: 2-3/8" x 10½" x 1¼".
J206 ..... wt. 6 oz. **$13.00**



BELLWETHER BIKE PACKS.

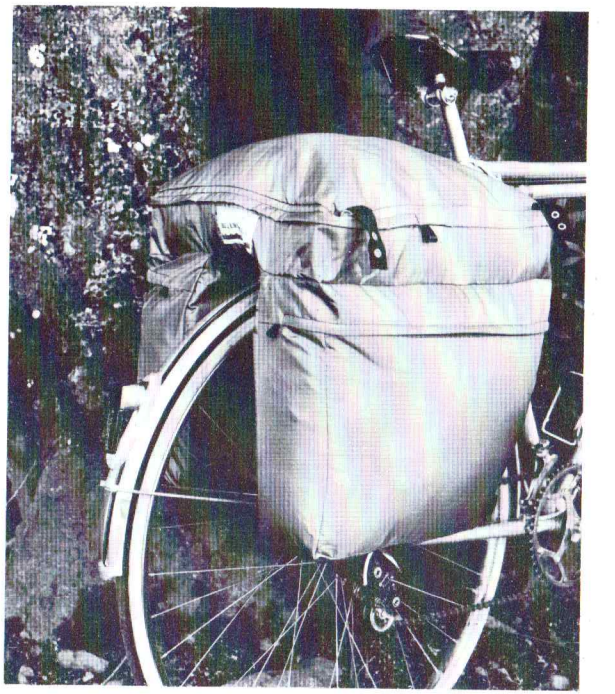
SADDLE PACK. Fastens behind bike seat for handy storage of small items. Made of waterproof urethane-coated nylon duck. 9" wide, 5" x 6½" oval cross section with fiberboard stiffeners at ends. Wrap-around 1" nylon webb straps for support and closure. Pack fastens to bike seat with ½" nylon straps. Color: red or blue.
R902 ..... wt. 6 oz. ..... **$ 6.00**

SMALL TOURING PACK. Pannier style fastens to standard rear carrying bracket with 1" nylon straps. Waterproof urethane-coated nylon duck. Large sacks measure 9" x 12" x 4" and close with a nylon coil zipper. Smaller side pockets measure 6" x 8" x 2" and close with velcro. Color: red or blue.
R904 ..... wt. 20 oz. **$20.00**

GRAND TOURING PACK. Large panniers with forward taper for most efficient use of space. 1" nylon webb straps fasten to standard rear carrying bracket. Side bags measure 15" at greatest dimension and taper to 10". Height is 12" and depth is 4". Nylon coil zippers. Fiberboard side stiffeners. Top compartment measures 15" x 15" x 3½" with nylon coil zipper on opening. Pack is provided with grommeted tabs for convenient equipment tie-downs. Waterproof urethane-coated nylon duck. Color: red or blue.
R905 ..... wt. 29 oz. **$30.00**

DAYPACK. Long and narrow teardrop-shaped backpack especially designed for the cyclist. Waterproof urethane-coated nylon duck. 15" high. Bottom measures 11" x 5". Back pocket is 8½" x 5¾" x 1¾". Both compartments have nylon coil zipper closures, adjustable shoulder straps and waist belt of nylon webb. Color: red or blue.
R901 ..... wt. 8 oz. **$10.00**

HANDLE BAR PACK. Convenient and readily accessible storage for lunch, camera, sweater, etc. Main sack is 9" x 10" x 4" with nylon coil zipper on flap. Smaller accessory pocket on front of pack closes with velcro and measures 6" x 7½" x 1½". Full size fiberboard stiffener at back. 1" nylon web straps fasten pack securely to handle bars and fork. Waterproof urethane-coated nylon duck throughout. Color: red or blue.
R903 ..... wt. 12 oz. **$12.50**



KELTY PACKS feature a lightweight frame of welded aluminum. Padded shoulder straps. Two 5" wide back bands maintain clearance. Upper band is nylon mesh, lower band has padded section. 2" nylon waist strap with quick-release buckle. Bag fastens to frame with clevis pins and attaching wires. Small frame fits persons under 5' 3"; medium fits 5' 3" to 5' 7"; large fits 5' 7" to 6' and x-large fits 6' and over. Kelty packbags are made of Zelan-treated nylon for water repellency and come in four sizes corresponding to frame size: small—16" x 14" x 8"; Medium—18" x 14" x 8"; large—20" x 15" x 9"; and x-large—22" x 15" x 9".

Model A-4. Popular ¾ length bag divided into upper and lower sections. Upper section is again divided into three vertical compartments. Four outer pockets. Metal zippers. Does not include stuffbag. Sizes: S, M, L, XL. Color: green.
R503
(bag and frame) ave. wt. 57 oz. . . **$53.00**

Model B-4. Same dimensions as Model A-4, but without partitions for those who prefer an open-style packbag. Does not include stuffbag. Sizes: S, M, L, XL. Color: green.
R502
(bag and frame) ave. wt. 55 oz. . . **$48.00**

KELTY STUFFBAGS are sold separately and are made of the same material as the Kelty packbags.

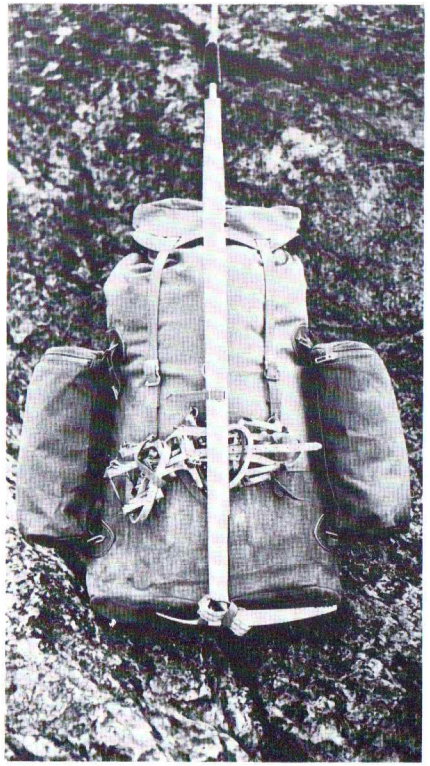
R510	9" x 17"	wt. 3½ oz.	**$ 4.00**
R511	10" x 18"	wt. 4 oz.	**$ 4.00**
R512	11" x 19"	wt. 4½ oz.	**$ 4.00**

KELTY PACK RAIN COVER. A waterproof nylon cover that fits over pack to provide rain protection. Specify frame and bag size.
R153 . . . . . wt. 4 oz. . . . . **$ 5.00**

KELTY FRAME EXTENSION. Adds 6" to frame height. Specify frame size.
R514 . . . . . wt. 6 oz. . . . . **$ 3.85**

KELTY ACCESSORY STRAPS. 5/8" wide nylon with buckle.

R5153	36"	wt. 1½ oz.	**pr. $ .85**
R5154	42"	wt. 2 oz.	**pr. $ .90**



SAC MILLET MODEL 370. Heavy water-repellent cotton canvas with suede leather bottom. Frame is rigid contoured back panel extending height of pack, crossed at bottom by steel bow and nylon band. Reinforced at tension points. Nylon waist band and padded nylon shoulder straps. Main sack measures 6" x 16" x 25". Inside back pocket. Accessory straps and patches for carrying skis. Inner and outer flap pockets. Accessory straps for ice axe, crampons, rope, etc. Blue canvas with grey leather.
R310 . . . . . wt. 4¾ lbs. **$35.50**

R310/p Detachable side pockets as in photo.
. . . . . **$ 7.50**

TRAILWISE KNAPSACK. Popular low-priced knapsack of water-repellent canvas. Two outside zipper pockets. Main flap is held closed by a bag snap. Measures 6" x 14" x 16". Adjustable waist and shoulder straps. Colors: red, green, sage.
R600 . . . . . wt. 18 oz. . . . . **$ 6.50**

JUNIOR KNAPSACK. An inexpensive children's pack. This small knapsack (11" x 12") has a patch pocket located on the outside under flap. Adjustable waist and shoulder straps. Water-repellent canvas. Colors: red, green, sage.
R601 . . . . . wt. 9 oz. . . . . **$ 3.50**

SAC MILLET MODEL 365. A lightweight rucksack for day trips. Urethane-coated nylon with reinforced seams. Rigid contoured back panel with steel bow and nylon band at bottom. Nylon waist band and padded shoulder straps. Sack measures 5" x 13" x 18". Zippered back pocket. Colors: red or blue.
R311 . . . . . wt. 27 oz. **$18.50**

ALP SPORT ROCK CLIMBER STANDARD. This teardrop-shaped pack is 16" high, and divided into upper and lower compartments. 6" x 12" leather bottom. Capacity 10 to 15 lbs. Ice axe carrier, two accessory strap holders on the bottom, nylon hauling loop and waist strap. Urethane-coated waterproof nylon. Colors: orange or turf.
R201 ..... wt. 24 oz. **$19.50**

ALP SPORT ROCK CLIMBER SPECIAL. The same shape and design as the Standard, but on a larger scale. 18" high, with a 7" x 14" bottom. Designed to carry 20 to 25 lbs.—nearly twice the capacity of the Standard. Colors: orange or turf.
R202 ..... wt. 25 oz. **$21.50**

ALP SPORT EIGER STANDARD. An ideal rucksack for weekend trips and extended rock climbs. Removable aluminum stays can be bent to conform to the wearer's back. 7" x 14" leather bottom, height 19". Capacity 30 to 35 lbs. Two side pockets and large pocket in flap covered with nylon zippers. Ice axe carrier, two accessory strap holders, nylon hauling handle, waistband. Material is urethane-coated nylon duck. Colors: orange or turf.
R203 ..... wt. 37 oz. **$30.00**

ALP SPORT SKI-MOUNTAINEERING PACK. Identical to the Eiger Standard, with the addition of leather-reinforced ski carrying slots.
R204 ..... wt. 40 oz. **$33.50**

TRAILWISE SUMMIT PACK. A large-capacity (1000 cu. in.) teardrop-shaped pack. Made from tough nylon Cordora Cloth. Urethane-coated for water repellency. Double layer on bottom. 20" zipper at top of pack. Ice axe loop. Nylon shoulder straps with integral covered ensolite pads. Waist strap. Height: 19½', bottom: 6½" x 16". Colors: blue, orange or green.
R108 ..... wt. 20 oz. **$19.50**

TRAILWISE SKIER'S BELT BAG. Made of urethane-coated nylon duck, with adjustable belt of nylon web. Contoured to fit the body. Nylon zipper. A handy bag for camera, lunch, wax, goggles, etc. Size 12½" x 4½". Colors: blue or brown.
R118 ..... wt. 6 oz. ..... **$ 6.00**

TRAILWISE NYLON BELT POUCH. A convenient and easily accessible pouch for snacks, glasses, first aid material, etc. Made of waterproof nylon duck. Nylon zipper and belt loops. Size 4½" x 7½" x 2". Colors: blue or brown.
R113 ..... wt. 2 oz. ..... **$ 4.00**

TRAILWISE PACKFRAMES AND BAGS

Trailwise packframes are designed and constructed with comfort, durability and lightness as the foremost considerations.

A packframe that is comfortable to wear is the result of (1) a well contoured and shaped frame and packbag that place the load as close to the body as is practical, (2) a padded suspension system that allows the majority of the load weight to be placed directly on the hips, and (3) a full mesh back panel, originated by Trailwise, which distributes weight and allows maximum air circulation between pack and wearer.

The Trailwise contour frame shapes the load around the back and extends the effective carrying area of the back, both in width and in height.

The Trailwise frame is constructed of a non-corrosive, aluminum alloy thick-wall tubing. All parts of the frame contribute to its structural strength because there are no loose or unwelded parts. Every joint is heli-arc welded. The Trailwise packbag is attached to the frame with aluminum and steel eyebolts and aluminum Rivnuts. This combination of eyebolt and Rivnut attachment has a strength advantage over the usual clevis pin and wire attachment in that the frame need only be drilled from one side, plus the Rivnut helps to reinforce this hole. The eyebolts can be used as lashing points.

The three-quarter length packbags can be mounted in either a high or a low position on the frame depending on where the center of gravity of the load is desired. The high position is used for maximum loads on a relatively smooth trail, and the low position is used for climbing or for rough terrain where balance becomes an important consideration. Both the full length packbag and the three-quarter length packbags extend the full width of the frame.

PACKFRAME ADJUSTING INSTRUCTIONS

The following steps should be taken when adjusting the suspension system of the Trailwise packframe.

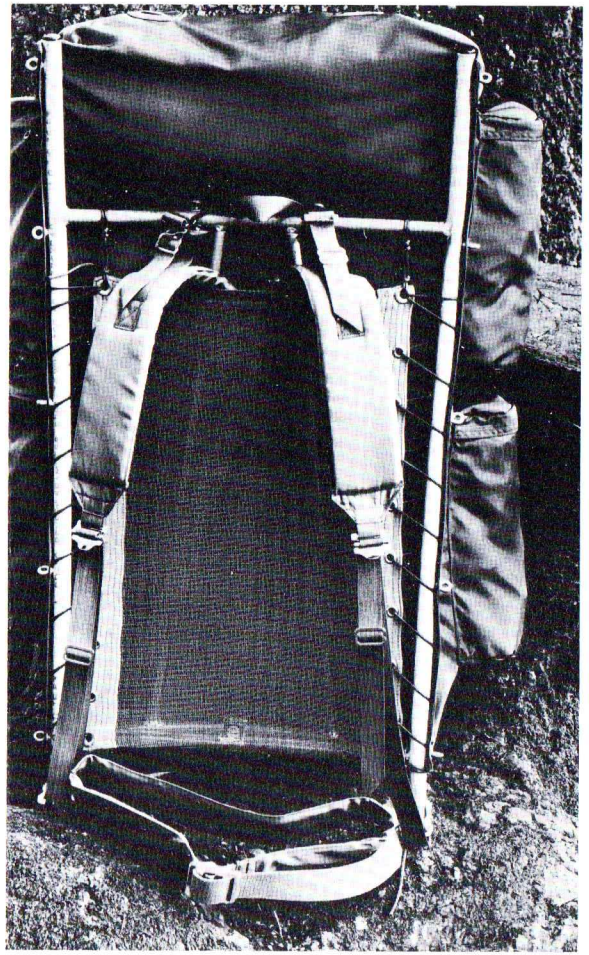
Step 1: The padded hip belt should encircle the hips below the waist and on the flare of the hips and buttocks. Belt placement can be assisted by leaning forward slightly and hunching up the packframe with the back and shoulders until the belt is in the proper position. Cinch up the belt.

Step 2: Release the slide fasteners on the yoke back straps. Move the yoke assembly forward or backward to that point where the tabs connected to the yoke are slightly forward of the center of the shoulders. Reset the slide fasteners. This adjustment need only be made on the initial fitting of the packframe.

Step 3: Pull down on the clevis straps until pressure from the yoke is felt on the top of the shoulders.

Step 4: Pull forward on the yoke tabs to bring the mesh back panel up snug against the back.

Step 5: Release the clevis straps slightly. This should allow the packframe to settle down on the hips.



TRAILWISE CONTOUR FRAME. Rugged (6061-T6) aluminum alloy; contour plus taper. Features adjustable, Ensolite-padded cross straps which give excellent weight distribution, reducing the localized pressure on shoulders inherent in all ordinary shoulder strap suspensions. Full nylon mesh back further distributes weight and allows maximum air circulation between pack and wearer. Full circle padded hip belt comfortably transfers most of weight to hips when desired. Nylon hauling strap securely fastened to frame. Riv-nuts placed on sides of frame for mounting Trailwise pack bags.

R101/s (small) . . . . . wt. 35 oz. **$28.50**
R101/m (medium) . . . . . wt. 37 oz. **$28.50**
R101/l (large) . . . . . wt. 40 oz. **$28.50**
(Small frame fits persons from 5′ to 5′ 6″, medium from 5′ 6″ to 5′11″, large 5′11″ and over.)

TRAILWISE PACK BAG MODEL 72. Single spacious sack, roomy enough to hold all your gear for an extended outing. Side mounted. Made of waterproof heavy-duty urethane-coated nylon duck. Five outer pockets with covered nylon zippers. Aluminum tube holds top of bag open for easy access. Large size measures 17″ x 29″ x 8″. Medium and small sizes approximately 1″ smaller. Total volume for large size is 4429 cu. in. Colors: blue, brown or orange.

R172/s (small frame only) . . . . . wt. 22 oz. **$26.00**
R172/m (medium frame only) . . . . . wt. 23 oz. **$26.00**
R172/l (large frame only) . . . . . wt. 25 oz. **$26.00**

TRAILWISE PACK BAG 72 MOUNTED ON TRAILWISE CONTOUR FRAME.

R172/X (Specify size) . . . . . ave. wt. 61 oz. **$53.00**

TRAILWISE PACK FRAME ACCESSORIES

TRAILWISE PACK BAG MODEL 73. Three-quarter length undivided sack. Center of gravity may be raised or lowered by changing position of sack on frame. Fully equipped with 8" x 17" waterproof sack for sleeping bag and 4 nylon accessory straps. Long side pockets measure 2¾" x 6" x 18" with vertical nylon zipper. Back pocket is 2" x 8" x 15". Large bag measures 8" x 17" x 21½" with a total capacity of 3476 cu. in. (including pockets). Made of heavy-duty urethane-coated nylon duck. Colors: blue, brown or orange.

R173/s (small frame only) ..... wt. 25 oz. **$26.00**
R173/m (medium frame only) ..... wt. 26 oz. **$26.00**
R173/l (large frame only) ..... wt. 29 oz. **$26.00**

TRAILWISE PACK BAG 73 MOUNTED ON TRAILWISE CONTOUR FRAME.
R173/X (Specify size) ..... ave. wt. 64 oz. **$53.00**

TRAILWISE PACK BAG MODEL 74. Three-quarter length sack divided into upper and lower compartments. 7" lower compartment is accessible through 17" wide zippered opening. Side mounted. Center of gravity may be raised or lowered by changing position of sack on frame. Sleeping bag is carried in heavy-duty 8" x 17" waterproof stuff bag and mounted either above or below main sack. Two outer pockets with covered nylon zippers measure 2¾" x 6" x 11½". Large size bag measures 8" x 17" x 21½" with a total capacity of 3022 cu. in. Made of heavy-duty urethane-coated nylon duck. Colors: blue, brown or orange.

R174/s (small frame only) ..... wt. 23 oz. **$26.00**
R174/m (medium frame only) ..... wt. 24 oz. **$26.00**
R174/l (large frame only) ..... wt. 26 oz. **$26.00**

TRAILWISE PACK BAG 74 MOUNTED ON TRAILWISE CONTOUR FRAME.
R174/X (Specify size) ..... ave. wt. 62 oz. **$53.00**

TRAILWISE PADDED HIP BELT. Deluxe full circle belt is nylon web, padded with Ensolite, and covered with nylon duck. The most effective and comfortable hip belt made. Specify frame size.

R109/m for small and medium frames wt. 4½ oz. .... **$ 5.00**
R109/l for large frames ..... wt. 5 oz. .... **$ 5.00**

TRAILWISE SHOULDER YOKE. Crossover straps to fit Trailwise contour frame. All nylon with Ensolite padding. Three-way adjustment for perfect fit. Aluminum tabler buckles allow effortless adjustment of straps, even when wearing pack.

R102 ..... wt. 8 oz. ..... **$ 8.00**

NYLON MESH BACK. Strong gauge nylon mesh. Grommets installed along edges and corners for lacing to frame. Lace included.

R104/s ..... 11" x 15" .... wt. 3½ oz. ..... **$ 6.00**
R104/m ..... 11" x 17" .... wt. 3¾ oz. ..... **$ 6.00**
R104/l .... 12½" x 19¾" .... wt. 4½ oz. ..... **$ 6.00**

SUPPORT TUBE. U-shaped aluminum tube used to keep tops of Trailwise pack bags open. Specify pack bag size.

R105 ..... wt. 2 oz. ..... **$ 1.75**

CLEVIS PINS. 1¼" long. Includes keeper ring.

R110 ..... **pr. $ .35**

ALUMINUM EYE BOLTS. For attaching pack bags to Trailwise frames.

R111 ..... **ea. $ .10**

ELASTIC SHOCK CORD LOOP. For attaching stuffsack to frame.

R112 ..... 1½ oz. ..... **$ .50**

TRAILWISE HEAVY DUTY STUFF BAG. Made of waterproof urethane-coated nylon duck, as used in Trailwise packs. Size 8" x 17". Colors: blue or brown.

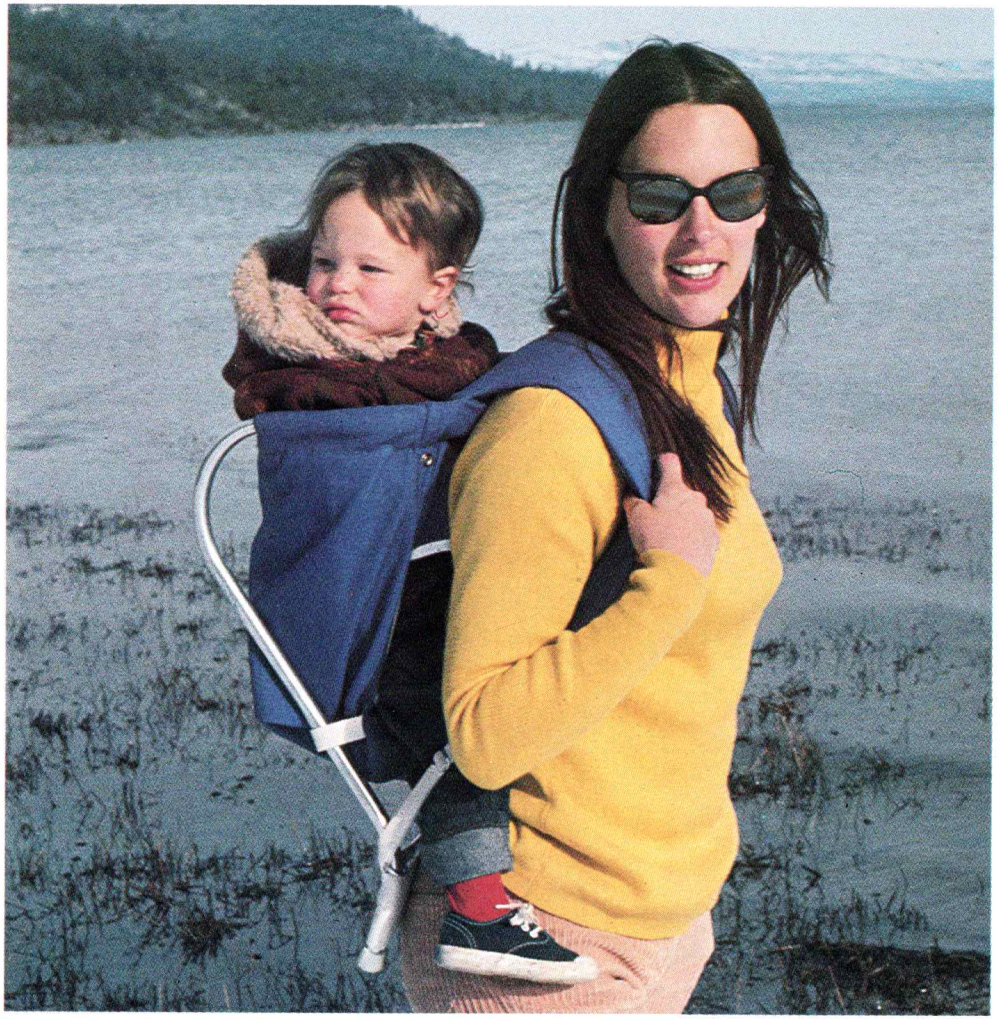
R121 ..... wt. 5 oz. ..... **$ 3.50**

PLASTIC CAPS. Fit frame ends.

R106 ..... wt. ½ oz. ..... **$ .05**

TABLER BUCKLES. Aluminum 1" buckles.

R902 ..... wt. ½ oz. ..... **$ .05**

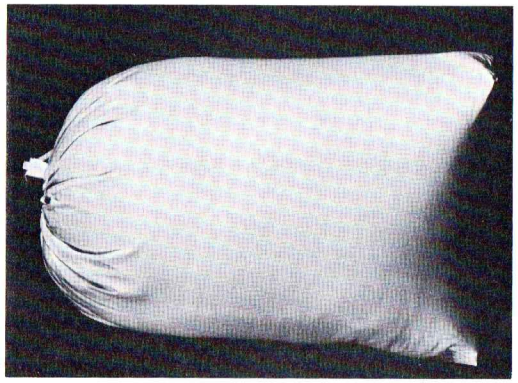


GERRY KIDDIE PACK. Deluxe "featherfloat" suspension with padded shoulder yoke extending padding completely across shoulders. Tubular aluminum cantilever frame. Carrying sack of washable duck. Seat height is adjustable with storage space underneath. Waist safety strap holds infant securely. Wide back-band transmits part of load to hips. For babies 4 months to 3 years. Color: blue.
R811 ..... wt. 24 oz. **$16.00**

TRAILWISE SHOULDER PADS. 3/8" Ensolite: firm, comfortable padding covered with nylon duck. For straps up to 2¼" wide. Pads are 10" long.
R107 ..... wt. 2 oz. ..... **pr. $ 2.50**

TRAILWISE NYLON ZIPPER DUFFLE. Strong and light. Full length nylon zipper. Urethane-coated nylon duck with wrap-around nylon web handles. Nylon web handles on both ends. Size 14" x 30". Colors: blue or brown.
R119 ..... wt. 16 oz. **$14.00**

DUFFLE BAG. Inexpensive bag, ideal for river trips or travel in wet country. Made of rubberized cotton fabric, with sealed seams. Drawcord closure. Round bottom. Size 15" x 30".
R605 ..... wt. 17 oz. ..... **$ 1.75**



TRAILWISE STUFF BAGS. Made of lightweight coated waterproof nylon. Drawcord closure with nylon slide lock.

R120/46
4" x 6" ..... wt. 1 oz. ..... **$ 1.25**
R120/510
5" x 10" ..... wt. 1¾ oz. ..... **$ 1.40**
R120/711
7" x 11" ..... wt. 2 oz. ..... **$ 1.70**
R120/718
7" x 18" ..... wt. 2¼ oz. ..... **$ 1.95**
R120/722
7" x 22" ..... wt. 2½ oz. ..... **$ 2.50**
R120/918
9" x 18" ..... wt. 2½ oz. ..... **$ 2.50**
R120/921
9" x 21" ..... wt. 2¾ oz. ..... **$ 2.75**
R120/1121
11" x 21" ..... wt. 3 oz. ..... **$ 3.00**

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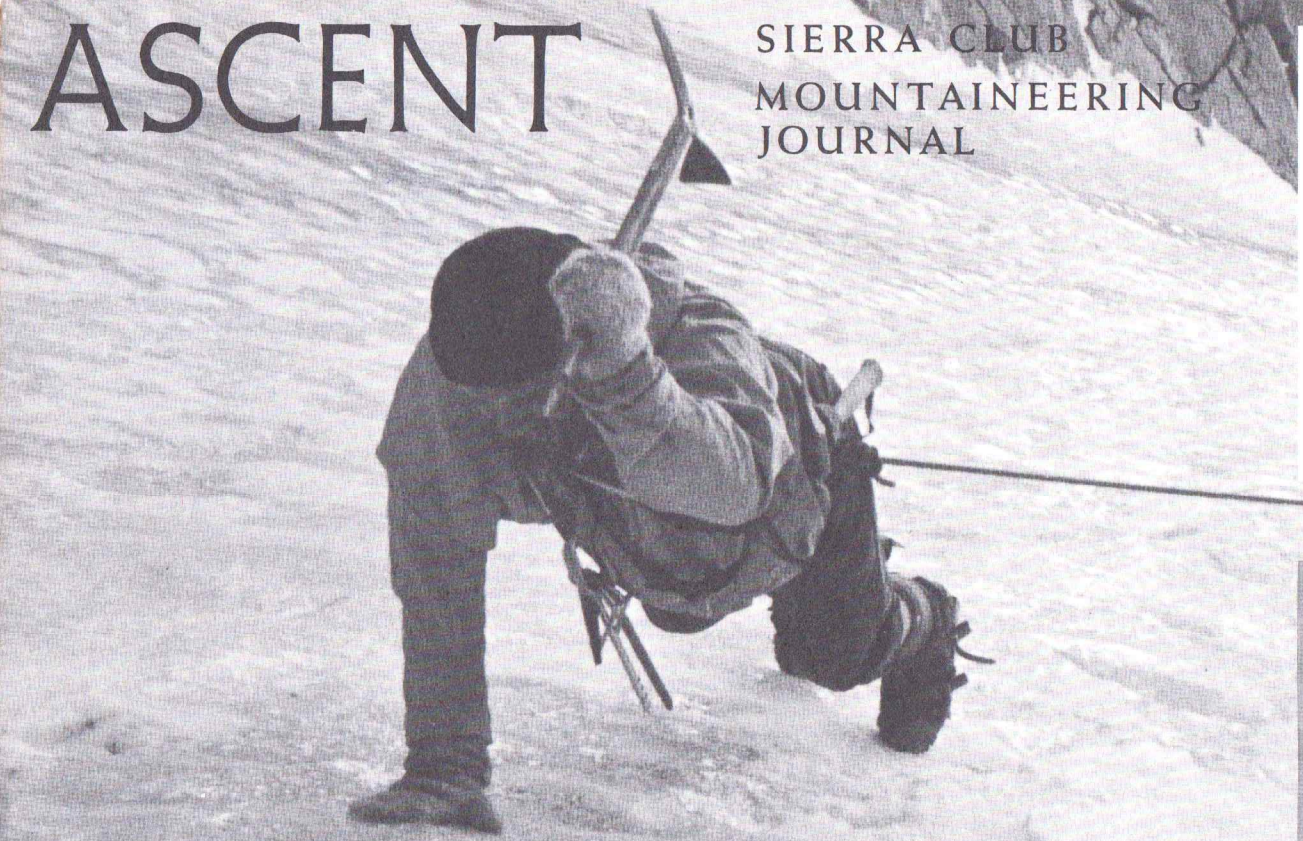


ASCENT is an annual publication, sponsored by the Sierra Club and is now in its sixth successful year. Articles are concerned with the total Alpine experience; outstanding photographs of mountains and the people who climb them; accounts of major climbs and expeditions; satire, essays, cartoons and book reviews. Of Sierra Club exhibit format quality with color covers. 56 pages. No advertising. Price: $3.00 per issue. Designed to become a permanent part of your library. Creative and innovative manuscripts as well as photographs (mostly black/white) should be sent to: 6201 Medau Place, Oakland, Ca. 94611. Editorial staff: Steve Roper, Allen Steck and Lito Tejada-Flores.

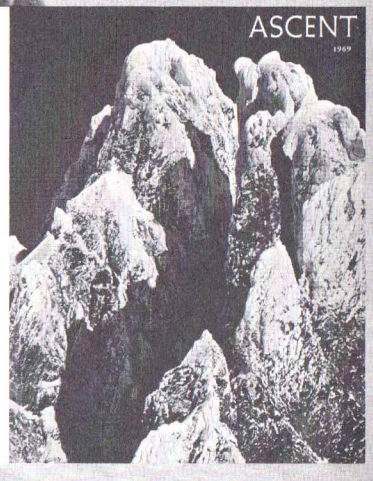
Back issues are still available as shown at right.

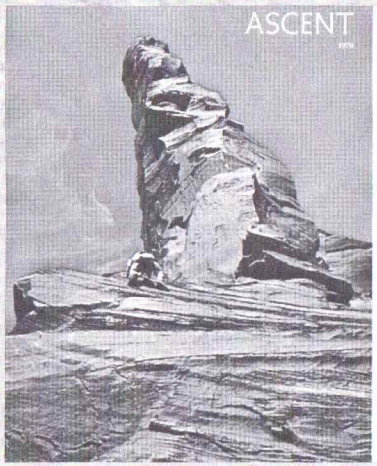
See order coupon at opposite end of this sheet

Contents of 1972 issue: (ready mid-July) In Due Time, a play in a Yosemite setting (Tom Higgins); Sea Cliff Climbing in England, photos and story (John Cleare); Alone on the Cima Grande, ascent of the North Face, reprinted from Alpinismo Eroico (Emilio Comici); Daedalus (Ian Rowe); story of an ascent of the North Howser Tower (Galen Rowell); discussion of English language climbing magazines (Dave Roberts); short articles by Chouinard, Svenson, and others. Plus reviews, notes, photos. 56 pages.

1969

Yerupaja, Logan Mountains, Interview with Fritz Wiessner. Mt. Waddington bibliography and photo essay. Matterhorn North Face. Conquest of Tillie's Lookout (reprinted from Mad Magazine). Guide to climbing in Tuolumne Meadows. Plus notes, book reviews and other short articles. 48 pages.



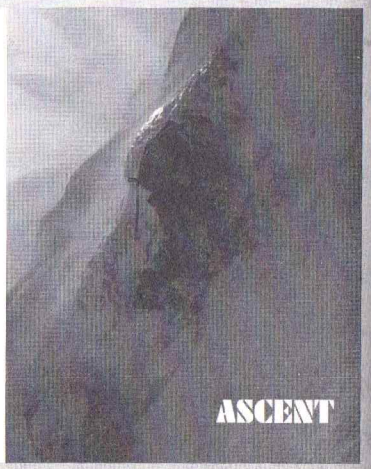


1970

Climbing in the Kichatna Range of Alaska (Fitschen). Tis-sa-ack, a new route on the North Face of Half Dome (Robbins). Desert climbing (Pratt); plus guide to major climbs (Roper) and photos. Photo essay; notes, essays, etc. 48 pages.

1971

Climbing in Australia (Rob Taylor); "Little Mother up the Moerderberg" (H. G. Wells); Yosemite's Other Valley (Rowell); The Incubus Hills (Ward-Drummond); Reflections of a Brokendown Climber (Harding); Who Needs the AAC? (Jones); plus articles on ice climbing and mountaineering instruction books; notes, reviews, etc. 56 pages.



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America The Beautiful Fund, 219 Shoreham Bldg., Washington, D.C. 20005
California Tomorrow, Monadnock Bldg., 681 Market St., San Francisco, Calif. 94105
Colorado Open Space Council, Inc., 5850 E. Jewell, Denver, Colo. 80222
Defenders of Wildlife, 2000 "N" St., N.W., Suite 201, Washington, D.C. 20036
Friends of Animals, Inc., 11 W. 60th St., New York, N. Y. 10023
Friends of the Earth, 529 Commercial Street, San Francisco, Calif. 94111
The Izaak Walton League of America, 1326 Waukegan Rd., Glenview, Ill. 60025
National Audubon Society, 1130 Fifth Ave., New York, N. Y. 10028
National Parks Association, 1701 Eighteenth St., N.W., Washington, D.C. 20009
National Wildlife Federation, 1412 Sixteenth St., Washington, D.C. 20009
Planned Parenthood-World Population, 810 Seventh Ave., New York, N. Y. 10019
Point Reyes Bird Observatory, Box 321, Bolinas, Calif. 94924
Outward Bound, Inc., Andover, Mass. 01810
Rocky Mountain Center on Environment, 580 E. Jewell, Denver, Colo. 80222
Sierra Club, 220 Bush St., San Francisco, Calif. 94104
Wilderness Society, 729 Fifteenth St., N.W., Washington, D.C. 20005
World Wildlife Fund, 901 Seventeenth St., N.W., Washington, D.C. 20005
Zero Population Growth, Inc., Los Altos, Calif. 94022

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Back Cover: OWL CHICK/Jeff Foott

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